



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

SEP 10 2014

REPLY TO THE ATTENTION OF:

**CERTIFIED MAIL 7009 1680 0000 7677 8299**  
**RETURN RECEIPT REQUESTED**

Mr. Dan Rogers  
General Manager  
USEC, Inc.  
American Centrifuge Program  
Post Office Box 628  
3930 US Route 23 South  
Piketon, Ohio 45661

Re: Notice of Violation  
RCRA Compliance Inspection  
USEC, Inc., American Centrifuge Program, Piketon, Ohio  
OHD 987 054 723

Dear Mr. Rogers:

On March 26, 2014 representatives of the U.S. Environmental Protection Agency and Ohio Environmental Protection Agency (Ohio EPA) inspected the USEC, Inc., American Centrifuge Plant (USEC ACP) installation located at 3930 US Route 23 South, Piketon, Ohio. The purpose of the inspection was to evaluate compliance with certain requirements of the Resource Conservation and Recovery Act (RCRA); specifically, those regulations related to the generation, treatment and storage of hazardous waste. A copy of the inspection report is enclosed for your reference.

Based upon information provided by USEC, Inc. personnel, review of records, and physical observations by the inspectors, EPA has determined that, at the time of inspection, USEC was not in compliance with the following requirement of the Ohio Administrative Code (OAC) and the United States Code of Federal Regulations (CFR).

- A small quantity handler of universal waste must manage lamps in a way that prevents releases of any universal waste or component of a universal waste to the environment. Specifically, a small quantity handler of universal waste must contain any lamp in containers or packages that are structurally sound, adequate to prevent breakage, and compatible with the contents of the lamps. Such containers and packages must remain closed and must lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions. See, OAC Rule 3745-273-13(D)(1) [40 CFR § 273.13(d)(1)].

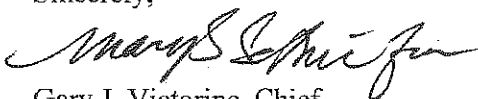
During the inspection of the Maintenance Area in Building X-7725, the inspectors observed two open containers of used fluorescent lamps, which is a violation of OAC Rule 3745-273-13(D)(1) [40 CFR § 273.13(d)(1)].

On March 27, 2014 Mr. Nathan Banks provided the inspectors with photographs of the closed and labeled used fluorescent lamp containers in Building X-7725. Based on this information, USEC, Inc. has resolved the violation of OAC Rule 3745-273-13(D)(1) [40 CFR § 273.13(d)(1)].

This letter is to inform you that EPA has reviewed the referenced information, and does not plan additional enforcement action at this time. This letter does not limit the applicability of the requirements evaluated, or of other federal or state statutes or regulations. EPA and the Ohio EPA will continue to evaluate USEC, Inc. in the future.

If you have any questions regarding this letter, please contact Walt Francis, of my staff, at (312) 353-4921.

Sincerely,



Gary J. Victorine, Chief  
RCRA Branch

Enclosures

cc: Melody Stewart, OEPA – Southeast District Office  
([melody.stewart@epa.ohio.gov](mailto:melody.stewart@epa.ohio.gov))  
Bruce McCoy, Ohio EPA – Columbus Office  
([bruce.mccoy@epa.ohio.gov](mailto:bruce.mccoy@epa.ohio.gov))

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 W. JACKSON BOULEVARD  
CHICAGO, ILLINOIS 60604

RCRA COMPLIANCE EVALUATION INSPECTION REPORT

FACILITY NAME: UNITED STATES ENRICHMENT CORPORATION  
AMERICAN CENTRIFUGE PROGRAM

FACILITY U.S. EPA ID NO.: OHD 987 054 723

FACILITY TYPE: Conditionally Exempt Small Quantity Generator

FACILITY ADDRESS: 3930 US Route 23 South  
Piketon, Ohio 45661

U.S. EPA REPRESENTATIVE: Walt Francis

DATE(S) OF INSPECTION: March 26, 2014

SIC CODE: 2819 - Industrial Inorganic Chemicals, Not Elsewhere  
Classified

NAICS CODE: 325188 - All Other Basic Inorganic Chemical  
Manufacturing

PREPARED BY: Walt Francis  
Walt Francis  
Environmental Scientist

4/14/2014  
Date

ACCEPTED BY: Julie Morris  
Julie Morris, Chief  
Compliance Section 2  
RCRA Branch

4/18/14  
Date

### **Purpose of Inspection**

The purpose of this inspection was to conduct a Compliance Evaluation Inspection (CEI) at the United States Enrichment Corporation (USEC) American Centrifuge Program (ACP) facility, Piketon, Ohio to determine its compliance with the Resource Conservation and Recovery Act (RCRA), and the Ohio Administrative Code (OAC) with respect to USEC's management of hazardous waste, universal waste and used oil as part of a U.S. EPA multimedia inspection.

### **Participants**

U.S. Environmental Protection Agency (U.S. EPA) Inspectors -

Walt Francis, Environmental Scientist

Lynne Roberts, Environmental Scientist

Jennifer Welch, Environmental Engineer

Jonathan Moody, Environmental Engineer

Arturo Cisneros, Environmental Scientist

Ohio Environmental Protection Agency (Ohio EPA) Inspectors -

Melody Stewart, Hazardous Waste Inspector

Maria Galanti, Environmental Specialist II

Jack Knapp, Environmental Specialist II

Representatives of U.S. Department of Energy (U.S. DOE), Fluor-B&W Portsmouth, LLC (FBP), Wastren-EnergX Mission Support, LLC (WEMS), Restoration Services (RSI), United States Enrichment Company/American Centrifuge Plant (USEC/ACP), and Babcock and Wilcox Conversion Services (BWCS) -

Kristi Wiehle, U.S. DOE

Amy Lawson, U.S. DOE

Rosemary Richmond, RSI

Jason Lovins, FBP

Bob Nichols, FBP

Sandy Childers, Insolves

Dennis Carr, FBP

Fred Hughes, FBP

Eric Foster, FBP

Ryan Conkel, FBP

Robert Blythe, FBP

Dean Lobdell, FBP

Marilew Bartling, FBP

John McCoy, FBP

Cidney Voth, DOE Oversight Operations

Greg Uetrecht, RSI



Bob Anderson, WEMS  
Chris Guilliams, FBP  
Jeremy Davis, RSI  
Bob French, FBP  
Frank Johnston, FBP  
Sue Fulk, USEC/ACP  
Carolyn Hamilton, USEC/ACP  
Roger Coates, BWCS  
Jyh-Dong Chion, FBP  
David McClay, United Steel Worker Safety  
Greg Goslon, USEC/ACP  
Christopher Brust, USEC/ACP  
Nathan Banks, USEC/ACP

#### **Site Description/Background Information**

The USEC ACP facility is located on the U.S. DOE 3,700 acre reservation near Piketon, Ohio. Approximately, 200 acres of the U.S. DOE reservation is occupied by the ACP. The ACP is comprised of various buildings and areas that house systems and equipment necessary to support the ACP uranium enrichment process.

Hazardous wastes are generated at various satellite accumulation areas (SAAs) located throughout the ACP facilities. When containers are full, they are brought to a "hazardous waste less than 90-Day accumulation area" in Building X-7725, at Area E, Column C-8.

USEC, Inc. started the ACP in October 2011, and currently has approximately 350 employees.

#### **Opening Conference**

On March 24, 2014 Walt Francis, Lynne Roberts, Jennifer Welch, Jonathan Moody and Melody Stewart arrived at Building X-1000 at approximately 8:00 a.m. and informed the U.S. DOE, RSI, FBP, USEC/ACP, and BWCS representatives of the nature, scope, and procedures for the multimedia inspection. The inspection was conducted by U.S. EPA and Ohio EPA personnel as a Federal lead inspection. The facility representatives provided the team with a brief update of the ACP facility. The current ACP activities include research and demonstration. Ms. Amy Lawson allowed the inspectors access to the facility to conduct the inspection.

On March 26, 2014, Ms. Melody Stewart and Mr. Walt Francis met Mr. Nathan Banks, Environmental Engineer at the "E-Portal" at approximately 8:00 am. Mr. Banks took the inspectors to a conference room in Building X-7721. Mr. Banks provided the inspectors with information on the various hazardous wastes, universal wastes, used oil, used antifreeze and lead acid batteries that are generated at the ACP facility. Mr. Banks told the inspectors that based on the amount of hazardous waste generated that they are technically a Conditionally Exempt Small

Quantity Generator (CESQG). Mr. Banks told the inspectors that ACP generates less than five gallons per month of used aerosol cans. However, ACP maintains a Contingency Plan, training records, inspection log, and a less than 90-day hazardous waste accumulation area as if a Large Quantity Generator. Mr. Banks did not make a confidential business information claim on the information gathered during the inspection.

### **Site Tour**

Mr. Banks took the inspectors to Building X-7725. Mr. Banks showed the inspectors a hazardous waste less than 90-day accumulation area at Column C-8. Inspector Francis observed a 55-gallon container labeled "Aerosols, D001, 1/14/14". The walk-through continued to the Maintenance Shop. Mr. Banks showed the inspectors a universal waste accumulation area in Area G, Column B-8. Inspector Francis observed that two boxes of used fluorescent lamps were open with accumulation dates of "2/28/2014" and "12/18/2013". Mr. Banks also showed the inspectors a SAA area in the Maintenance Area G at Column B-8, a used oil accumulation area, and a used lead acid battery accumulation area. Inspector Francis observed a hazardous waste container labeled "Broken Light Bulbs, D009" and a hazardous waste container labeled "Used Aerosol Cans", and six 55-gallon containers labeled "Used Oil". The walk-through continued to Building X-3012. Mr. Banks showed the inspectors the Maintenance Shop South Side of Building X-3012. Specifically, a universal waste accumulation area with four foot and eight foot used fluorescent lamps, a SAA area for used aerosols and broken bulbs, used oil accumulation area, and used lead acid batteries. Inspector Francis noted that the 30-gallon SAA container of broken bulbs was labeled "Broken Bulbs, Full 7/12/13". In addition, Inspector Francis noted that the five 55-gallon containers of used oil were labeled "Used Oil". The walk-through continued to Building X-6000, Air Plant. Mr. Banks told the inspectors that Building X-6000 does generate used oil. However, at the time of the inspection, the inspectors did not observe any containers of used oil. The walk-through continued to Building X-7725A. Mr. Banks showed the inspectors a 55-gallon SAA container of used aerosol cans.

The inspection group returned to Building X-7721 to review records.

### **Records Review**

A records review was conducted. The inspection team requested to review hazardous waste manifests, universal waste and used oil shipping records. Mr. Banks told the inspectors that no off-site shipments of hazardous waste have occurred since October 2011. Universal Waste was being shipped to USA Lamp and Ballast Recycling, Cincinnati, Ohio, and the date of the last off-site shipment was December 13, 2013. Used oil was picked up by Glockner Oil, Piketon, Ohio. The inspectors reviewed a Contingency Plan that was last updated April 5, 2012.

### **Closing Conference**

The inspectors conducted a closing conference. Inspector Francis explained that he would review

his notes from the inspection, and generate an inspection report. USEC ACP would then receive a letter from U.S. EPA regarding the inspection including a copy of the inspection report, and completed inspection checklists. Inspector Francis noted the open boxes of used fluorescent lamps in Building X-7725, Maintenance Area G, Column B-8. Inspector Francis provided a U.S. EPA Small Business Resources information sheet, a U.S. EPA Region 5 Pollution Prevention contact sheet, a U.S. EPA Managing Used Oil Advice for Small Businesses fact sheet, and an Ohio EPA Pollution Prevention Assistance brochure to Mr. Banks.

**Attachments**

Inspection Checklists.

**RCRA HAZARDOUS WASTE GENERATOR  
INSPECTION CHECKLIST**

Company: United States Enrichment Corporation EPA ID#: OHD987054723  
 Street: 3930 US Route 23 South City: Piketon  
 County: Pike State: Ohio Zip: 45661  
 Mailing Address: Same  
 (If different from above)  
 Telephone: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Owner/Operator: \_\_\_\_\_  
 (If different from above)  
 Street: \_\_\_\_\_  
 City: \_\_\_\_\_ State: Ohio Zip: \_\_\_\_\_  
 Inspection Date(s): 3/26/2014 Time(s): \_\_\_\_\_  
 Inspection Announced? Yes ☒ NO If so, how much advance notice given? \_\_\_\_\_

	Name	Affiliation	Telephone
Inspectors:	Walt Francis	U.S. EPA	312-353-4921
	Melody Stewart	Ohio EPA	740-380-5256
Facility Representative:	Nathan Banks	USEC, Inc.	740-897-2641

Complete All Other Applicable Checklists	
Generator Classification	Waste Management Activity
<input checked="" type="checkbox"/> Conditionally Exempt SQG (CESQG)	<input checked="" type="checkbox"/> Containers
<input type="checkbox"/> Small Quantity Generator (SQG)	<input type="checkbox"/> Tank(s)
<input checked="" type="checkbox"/> Large Quantity Generator (LQG)	<input type="checkbox"/> Land Disposal Requirements (LDR)
<input type="checkbox"/> No Generation	<input checked="" type="checkbox"/> Used Oil
	<input checked="" type="checkbox"/> Universal Waste
	<input type="checkbox"/> Other

CESQG: < 100 Kg. (approximately 25-30 gallons) of waste in a calendar month  
 SQG: Between 100 and 1,000 Kg. (about 25 to under 300 gallons) of waste in a calendar month  
 LQG: >1,000 Kg. (~300 gallons) of waste in a calendar month or > 1 Kg. of acutely hazardous waste in a calendar month  
 NOTE: To convert from gallons to pounds: Amount in gallons x Specific Gravity x 8.345 = Amounts in pounds

**COMPLETE AND ATTACH A PROCESS DESCRIPTION SUMMARY  
NOTE TO THE INSPECTOR**

<b>CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR REQUIREMENTS</b> <b>COMPLETE AND ATTACH A PROCESS, WASTE, P2 SUMMARY SHEET</b>			
CESQG: ≤100Kg. (Approximately 25-30 gallons) of waste in a calendar month or < 1 Kg. of acutely hazardous waste. SQG: Between 100 and 1,000 Kg. (About 25 to under 300 gallons) of waste in a calendar month. LQG: ≥ 1,000 Kg. (~300 gallons) of waste in a calendar month or ≥1 Kg. of acutely hazardous waste in a calendar month. <i>NOTE: To convert from gallons to pounds: Amount in gallons x Specific Gravity x 8.345 = Amounts in pounds.</i>			
Safety Equipment Used:			
<b>WASTE EVALUATION</b>			
1.	Have all wastes generated at the facility been adequately evaluated? [3745-52-11]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
<b>GENERATOR CLASSIFICATION</b>			
2.	Does the generator produce <100 kg. of hazardous waste per month? [conditionally exempt small quantity generator ("CESQG")]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
<i>NOTE: If quantities of hazardous waste accumulated on-site at any one time exceed 1,000 Kg. - or the generator produces between 100 and 1,000 Kg. of hazardous waste per month, it is operating as a Small Quantity Generator ("SQG"). If so, complete the Small Quantity Generator Requirements checklist.</i>			
<b>OFF-SITE SHIPMENT OF HAZARDOUS WASTE</b>			
3.	Does the CESQG ensure delivery of hazardous waste(s) to an off-site permitted TSD? [3734.02(F)] <i>USA land on 9 waste</i>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
<b>TREATMENT OF HAZARDOUS WASTE</b>			
4.	Does the generator treat hazardous waste in a:		
	a. Container that meets 3745-66-70 to 3745-66-77?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
	b. Tank that meets 3745-66-90 to 3745-66-101 except 3745-66-97(C)?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
	c. Drip pads that meet 3745-69-40 to 3745-69-45?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
	d. Containment building that meets 3745-256-100 to 3745-256-102?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
<i>NOTE: Complete appropriate checklist for each unit.</i>			
<i>NOTE: If the CESQG conducts treatment they are subject to the LQG requirements.</i>			
<i>NOTE: If waste is treated to meet LDRs, use LDR checklist.</i>			
<b>MIX HAZARDOUS WASTE WITH USED OIL</b>			
5.	Does the CESQG mix its hazardous waste with used oil for the purpose of burning for energy recovery? [3745-51-05(J)] If so:		
	a. Does the CESQG manage the mixture in accordance with 3745-279-21?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	

SMALL QUANTITY UNIVERSAL WASTE HANDLER REQUIREMENTS		
Large Quantity Universal Waste Handler (LQUWH) = 5,000 Kg or more		
Small Quantity Universal Waste Handler (SQUWH) = 5,000 Kg or less		
<b>PROHIBITIONS</b>		
1.	Did the SQUWH dispose of universal waste? [3745-273-11(A)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
2.	Did the SQUWH dilute or treat universal waste, except when responding to releases as provided in OAC rule 3745-273-17 or managing specific wastes as provided in OAC rule 3745-273-13? [3745-273-11(B)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
<b>WASTE MANAGEMENT AND LABELING/MARKING</b>		
<b>UNIVERSAL WASTE BATTERIES</b>		
3.	Are batteries that show evidence of leakage, spillage or damage that could cause leaks contained? [3745-273-13(A)(1)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
4.	If batteries are contained, are the containers closed and structurally sound, compatible with the contents of the battery and lack evidence of leakage, spillage or damage that could cause leakage? [3745-273-13(A)(1)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
5.	Are the casings of the batteries breached, not intact, or open (except to remove the electrolyte)? [3745-273-13(A)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
6.	If the electrolyte is removed or other wastes generated, has it been determined whether the electrolyte or other wastes exhibit a characteristic of hazardous waste? [3745-273-13(A)(3)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
a.	If the electrolyte or other waste is characteristic, is it managed in compliance with OAC Chapters 3745-50 through 3745-69? [3745-273-13(A)(3)(a)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
b.	If the electrolyte or other waste is not hazardous, is it managed in compliance with applicable law? [3745-273-13(A)(3)(b)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
7.	Are the batteries or containers of batteries labeled with the words "Universal Waste-Battery(ies)" or "Waste Battery(ies)" or "Used Battery(ies)"? [3745-273-14(A)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<b>UNIVERSAL WASTE PESTICIDES</b>		
8.	Does the SQUWH prevent releases to the environment by managing pesticides in containers that are closed, structurally sound, compatible with the pesticides, and lack evidence of leakage, spillage, or damage? [3745-273-13(B)(1)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
9.	If the original pesticide container is in poor condition, was it over-packed into an acceptable container? [3745-273-13(B)(2)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
10.	If the pesticide is stored in a tank, are the requirements of rules 3745-66-90 through 3745-66-101, except for paragraph (C) of 3745-66-97, of the OAC met? (Use tank checklist) [3745-273-13(B)(3)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
11.	If pesticides are stored in a transport vehicle, is it closed, structurally sound, compatible with the pesticide(s), and does it lack evidence of leakage, spillage, or damage that could cause leakage? [3745-273-13(B)(4)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
12.	Are recalled universal waste pesticides that are in containers, tanks, or transport vehicles labeled with the label that was on or accompanied the product as sold or distributed and labeled with the words "Universal Waste Pesticides" or "Waste Pesticides"? [3745-273-14(B)(1)&(2)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
13.	Are unused pesticide products that are in containers, tanks, or transport vehicles labeled with either the label that was on the product when purchased (if still legible), the appropriate DOT label, or the designated label prescribed by the pesticide collection program and labeled with the words "Universal Waste-Pesticides" or "Waste Pesticides"? [3745-273-14(C)(1)&(2)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

UNIVERSAL WASTE MERCURY-CONTAINING EQUIPMENT		
14.	Has mercury-containing equipment with non-contained elemental mercury or that shows evidence of leakage, spillage or damage that could cause leaks been placed in a container that is closed, structurally sound, compatible with contents of the device and lacks evidence of leakage, spillage or damage that could cause leakage and is designed to prevent escape of mercury into the environment by volatilization or any other means? [3745-273-13(C)(1)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
15.	If the mercury-containing ampules are removed, does the SQUWH: [3745-273-13(C)(2)]	
a.	Remove and manage the ampules in a manner to prevent breakage and is the removal done over or in a containment device? [3745-273-13(C)(2)(a)&(b)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
b.	Have a clean-up system readily available to transfer spilled mercury to another container that meets the requirements of OAC rule 3745-52-34 and is the spilled mercury transferred immediately? [3745-273-13(C)(2)(c)&(d)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
c.	Ensure that the area where ampules are removed is well ventilated and monitored in compliance with applicable OSHA exposure levels for mercury? [3745-273-13(C)(2)(e)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
d.	Ensure that employees are thoroughly familiar with the proper waste handling and emergency procedures? [3745-273-13(C)(2)(f)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
e.	Ensure that removed ampules are stored in closed, non-leaking containers that are in good condition? [3745-273-13(C)(2)(g)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
f.	Pack removed ampules in containers with packing material to prevent breakage during storage, handling and transportation? [3745-273-13(C)(2)(h)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
16.	If the open original housing holding mercury is removed from a mercury-containing equipment that does not contain an ampule, does the SQUWH: [3745-273-13(C)(3)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
a.	Immediately seal the original housing holding the mercury with an air-tight seal to prevent the release of any mercury to the environment? [3745-273-13(C)(3)(a)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
b.	Follow all requirements for removing ampules and managing removed ampules in accordance with 3745-273-13(C)(2)? [3745-273-13(C)(3)(b)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
17.	When removing mercury containing ampules from mercury-containing equipment or sealing mercury from its original housing if there are mercury or clean-up residues resulting from spills or leaks, and/or other waste generated (e.g., remaining mercury-containing device), has it been determined whether those exhibit a characteristic of hazardous waste identified in OAC rules 3745-51-20 to 3745-51-24? [3745-273-13(C)(4)(a)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
a.	If the residues, and/or wastes are characteristic, are they managed in compliance with Chapters 3745-50 through 3745-69, 3745-205, 3745-256, 3745-266, and 3745-270 of the Administrative Code? (The handler is considered the generator of the mercury, residues, and/or other waste and is subject to OAC Chapter 3745-52) [3745-273-13(C)(4)(b)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
18.	Is mercury-containing equipment or containers of mercury-containing equipment labelled either "Universal Waste-Mercury-Containing Equipment" or "Waste Mercury-Containing Equipment" or "Used Mercury-Containing Equipment"? [3745-237-14(D)(1)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
19.	Are mercury-containing thermostats or containers containing ONLY thermostats labeled either "Universal Waste-Mercury Thermostat(s)" or "Waste Mercury Thermostat(s)" or "Used Mercury Thermostat(s)"? [3745-273-14(D)(2)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>



UNIVERSAL WASTE LAMPS		
20.	Does the SQUWH contain lamps in containers or packages that are structurally sound, adequate to prevent breakage, and compatible with contents of the lamps? Are containers or packages closed and do they lack evidence of leakage, spillage or damage that could cause leakage? [3745-273-13(D)(1)]	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> <i>not closed</i>
21.	Are lamps that show evidence of breakage, leakage or damage that could cause a release of mercury or hazardous constituents into the environment immediately cleaned up? Are they placed into a container that is closed, structurally sound, compatible with the contents of the lamps, and lack evidence of leakage, spillage or damage that could cause leakage or releases of mercury or hazardous waste constituents to the environment? [3745-273-13(D)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<p><b>NOTE: Treatment (such as crushing) by a UWH is prohibited under this rule unless the facility is permitted for such activities [3745-273-31(B)]. A generator crushing lamps must manage lamps according to hazardous waste rules (OAC Chapter 3745-52). Lamp crushing is a form of generator treatment (OAC rule 3745-52-34). Crushed lamps must be transported by a registered hazardous waste transporter to a permitted hazardous waste facility using a hazardous waste manifest.</b></p>		
22.	Are the lamps or containers or packages of lamps labeled with the words "Universal Waste-Lamp(s)" or "Waste Lamp(s)" or "Used Lamp(s)"? [3745-273-14(E)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
ACCUMULATION TIME		
23.	Is the waste accumulated for less than one year? [3745-273-15(A)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> <i>last shipment - 12/13/10</i>
a.	If not, is the waste accumulated over one year in order to facilitate proper recovery, treatment or disposal? (Burden of proof is on the handler to demonstrate) [3745-273-15(B)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<p><b>NOTE: Accumulation is defined as date generated or date received from another handler.</b></p>		
24.	Is the handler able to demonstrate the length of time the universal waste has been accumulated? [3745-273-15(C)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<p>If yes, describe below: <i>last shipment 12/13/10</i></p>		
EMPLOYEE TRAINING		
25.	Are employees who handle or have the responsibility for managing universal waste informed of waste handling/emergency procedures, relative to their responsibilities? [3745-273-16]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
RESPONSE TO RELEASES		
26.	Are releases of universal waste and other residues immediately contained? [3745-273-17(A)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
27.	Is the material released characterized? [3745-273-17(B)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
28.	If the material released is a hazardous waste, was it managed as required in OAC Chapters 3745-50 through 3745-69? (If the waste is hazardous, the handler is considered the generator of the waste and is subject to OAC Chapter 3745-52) [3745-273-17(B)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
OFF-SITE SHIPMENTS		
<p><b>NOTE: If a SQUWH self-transport waste, then the handler must comply with the Universal Waste transporter requirements.</b></p>		
29.	Are universal wastes sent to either another handler, destination facility or foreign destination? [3745-273-18(A)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

30.	Is the handler aware of DOT requirements for packaging and shipping? If no, make aware of 49 CFR 171-180.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
31.	Prior to shipping universal waste off-site, does the originating handler ensure that the receiver agrees to receive the shipment? [3745-273-18(D)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
32.	Has the originating handler ever had an off-site shipment rejected by another handler or destination facility?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
a.	If yes, did the originating handler receive the waste back or agree to where the shipment was sent? [3745-273-18(E)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
33.	If a handler rejects a partial or full load from another handler, does the receiving handler contact the originating handler and discuss and do <u>one of</u> the following:	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
a.	Send the waste back to the originating handler or send the shipment to a destination facility (if both the originating and receiving handler agree)? [3745-273-18(F)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
34.	If the handler received a shipment of hazardous waste that was not a universal waste, did the SQUWH immediately notify Ohio EPA? [3745-273-18(G)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<b>EXPORTS</b>		
35.	Is waste being sent to a foreign destination? If so:	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
a.	Does the small quantity handler comply with primary exporter requirements in OAC rules 3745-52-53, 3745-52-56, and 3745-52-57? [3745-273-20(A)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
b.	Is waste exported only upon consent of the receiving country and in conformance with the U.S. EPA "Acknowledgment of Consent" as defined in OAC rules 3745-52-50 to 3745-52-57? [3745-273-20(B)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
c.	Is a copy of the U.S. EPA "Acknowledgment of Consent" provided to the transporter? [3745-273-20(C)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

USED OIL INSPECTION CHECKLIST GENERATORS, COLLECTION CENTERS AND AGGREGATION POINTS			
NOTE: A facility is subject to the federal SPCC regulations (40 CFR 112) if it is non-transportation related (e.g., fixed) and has an aggregate above ground storage capacity greater than 1,320 gallons or a total underground storage capacity greater than 42,000 gallons of oil (including used oil), and there is reasonable expectation of a discharge to navigable waters.			
<b>PROHIBITIONS</b>			
1.	Does the generator manage used oil in a surface impoundment or waste pile? If yes:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
	a.	Is the surface impoundment or waste pile regulated as a hazardous waste management unit? [3745-279-12(A)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
NOTE: For example, used oil contaminated scrap metal stored in a pile.			
2.	Is used oil used as a dust suppressant? [3745-279-12(B)]		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
3.	Is off-specification used oil fuel burned for energy recovery in devices specified in 3745-279-12(C)?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
NOTE: Multiple used oil checklists may be applicable if used oil handler is performing multiple tasks (e.g., if generating used oil and shipping directly to a burner, complete generator and marketer checklists at a minimum).			
<b>GENERATOR STANDARDS</b>			
4.	Does the generator mix hazardous waste with used oil? If so,		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
	a.	Is the mixture managed as specified in 3745-279-10(B)? [3745-279-21(A)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
NOTE: Used Oil mixed with listed (3745-51-30 to 3745-51-35) or characteristic (3745-51-20 to 3745-51-24) hazardous waste are subject to regulation as a hazardous waste, unless the listed hazardous waste is listed solely because it exhibits a hazardous characteristic, and the resultant mixtures do not exhibit a characteristic. Mixtures of used oil and CESQG hazardous waste are subject to OAC Chapter 3745-279.			
5.	Does the generator of a used oil containing greater than 1,000 ppm total halogens manage the used oil as a hazardous waste unless the presumption is rebutted successfully? [3745-279-21(B)]		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
NOTE: If used oil contains greater than 1000 ppm total halogens, it is presumed to be listed hazardous waste until the presumption is successfully rebutted.			
6.	Does the generator store used oil in tanks; or containers; or a unit(s) subject to regulation as a hazardous waste management unit? [3745-279-22(A)]		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
7.	Are containers and aboveground tanks used to store used oil in good condition with no visible leaks? [3745-279-22(B)]		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
8.	Are containers, above ground tanks, and fill pipes used for underground tanks clearly labeled or marked "Used Oil"? [3745-279-22(C)]		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
9.	Has the generator, upon detection of a release of used oil, done the following: [3745-279-22(D)]		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	a.	Stopped the release?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	b.	Contained the release?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	c.	Cleaned up and properly managed the used oil and other materials?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	d.	Repaired or replaced the containers or tanks prior to returning them to service, if necessary?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<b>ON-SITE BURNING IN SPACE HEATER</b>			
10.	Does the generator burn used oil in used-oil fired space heaters? [3745-279-23] If so:		
	a.	Does the heater burn only used oil that owner/operator generates or used oil received from household do-it-yourself (DIY) used oil generators?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>

b.	Is the heater designed to have a maximum capacity of not more than 0.5 million BTU per hour?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
c.	Are the combustion gases from heater vented to the ambient air?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

NOTE: Ash accumulated in a space heater must be managed in accordance with 3745-279-10(E).

#### GENERATOR TRANSPORTATION

11.	Does the generator have the used oil hauled only by transporters that have obtained a U.S. EPA ID#? [3745-279-24] <i>Givens on</i>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
12.	If the generator self-transport used oil to an approved collection site or to an aggregation point owned by the generator: [3745-279-24]	
a.	Does the generator transport used oil in a vehicle owned by the generator or an employee of the generator? [3745-279-24]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
b.	Does the generator transport more than 55 gallons of used oil at any time? [3745-279-24]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

NOTE: Used oil generators may arrange for used oil to be transported by a transporter without a U.S. EPA ID # if the used oil is reclaimed under a contractual agreement (i.e., tolling arrangement).

#### COLLECTION CENTERS AND AGGREGATION POINTS

13.	Is the DIY used oil collection center in compliance with the generator standards in 3745-279-20 to 3745-279-24? [3745-279-30]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
14.	Is the non-DIY used oil collection center registered with Ohio EPA? [3745-279-31]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
15.	Is the used oil aggregation point in compliance with the generator standards in 3745-279-20 to 3745-279-24? [3745-279-32]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

NOTE: Complete Used Oil Generator and any other applicable used oil handler checklist (e.g., marketer, burner, etc.) for used oil collection centers and aggregation points.



Land and Chemicals Division

daily-7-10

Type of Document: ☒ Notice of Violation Letter  
☐ No Violation Letter and Inspection Report/Checklist  
☐ Letter of Acknowledgment  
☐ Information Request  
☐ Pre-Filing and Opportunity to Confer  
☐ State Notification of Enforcement Action


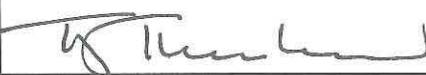

Facility Name: United States Enrichment Corporation Portsmouth Gaseous Diffusion Plant

Facility Location: 3930 US Route 23 South

City: Piketon State: Ohio

U.S. EPA ID# OHD 987 054 723

Assigned Staff W. Francis Phone: 312-353-4921

Name	Signature	Date
Author W. Francis		2/2/2010
Regional Counsel T. Thurlow		3/29/10
Section Chief P. Little		4-5-10
Branch Chief W. Harris		4/6/10

RTC  
MG  
4/6/10

**Directions/Request for Clerical Support:**

After the Section Chief/Branch Chief signs this sheet and original letter:

1. Date stamp the cover letter;
2. Make four copies of the contents of this folder:
  - One copy for the assigned staff;
  - One copy for the section file;
  - One copy for the branch file; and
  - One copy for the official file.
3. Make any additional copies for cc's or bcc's.
4. Mail the original certified mail and distribute office copies and cc's and bcc's.  
Once the certified mail receipt is returned:
5. File the certified mail receipt (green card), with this sign-off sheet and the official file copy, and take to 7<sup>th</sup> floor RCRA file room;
6. E-mail staff the date that the letter was received by facility.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

77 WEST JACKSON BOULEVARD

CHICAGO, IL 60604-3590

~~APR 09 2010~~

MAY 7, 2010

REPLY TO THE ATTENTION OF:

LR-8J

**CERTIFIED MAIL 7009 1680 000 7665 1547**  
**RETURN RECEIPT REQUESTED**

Ms. Barbara Halcomb  
Acting Manager, Environmental Compliance/Waste Management  
United States Enrichment Corporation  
Portsmouth Gaseous Diffusion Plant  
Post Office Box 628  
Piketon, Ohio 45661

Re: Notice of Violation  
RCRA Compliance Inspection  
United States Enrichment Corporation  
Portsmouth Gaseous Diffusion Plant  
Piketon, Ohio  
OHD 987 054 723

Dear Ms. Halcomb:

On June 22<sup>nd</sup> and June 23<sup>rd</sup>, 2009, representatives of the U.S. Environmental Protection Agency and Ohio Environmental Protection Agency (OEPA) inspected the United States Enrichment Corporation (USEC) facility located at 3930 US Route 23, Piketon, Ohio. The purpose of the inspection was to evaluate USEC's compliance with certain provisions of the Resource Conservation and Recovery Act (RCRA); specifically, those regulations related to the generation, treatment and storage of hazardous waste. Please find enclosed a copy of the inspection report for your reference.

Based on information provided by USEC personnel, review of records, and physical observations by the inspectors, EPA has determined that USEC is a large quantity generator of hazardous waste, that it is a large quantity handler of universal waste, is engaged in storage of hazardous waste without a permit, and that it is in violation of certain requirements of the Ohio Administrative Code (OAC) and the United States Code of Federal Regulations (CFR). To be eligible for the exemption from having a hazardous waste storage permit, USEC must be in compliance with the conditions of OAC 3745-52-34(A) and (C) [40 CFR § 262.34(a) and (c)]. We find that USEC is in noncompliance with the following conditions for a storage permit exemption, and in violation of the following generator requirements:

- 1) A large quantity generator must determine whether its waste is a hazardous waste. See, OAC Rule 3745-52-11 [40 CFR § 262.11].

At the time of the inspection of the area around the Steam Plant, the inspectors observed various materials that had been discarded, see photographs 1 through 7. USEC had not made waste determinations on these materials. USEC, therefore, violated the above-referenced generator requirement.

- 2) In order to avoid the need for a hazardous waste storage permit, a large quantity generator that is placing hazardous waste in tanks must comply with OAC Rules 3745-66-90 to 3745-66-101. See, OAC Rule 3745-52-34(A)(1)(b). Specifically, the owner or operator must inspect where present, at least once each operating day: (1) Overfill/spill control equipment; (2) Aboveground portions of the tank system; (3) Data gathered from monitoring equipment and leak detection equipment; and (4) Construction materials and the area immediately surrounding the externally accessible portion of the tank system including secondary containment structures. See, OAC Rule 3745-66-95(A) [40 CFR § 265.195(b)(1) through (3)]. Under OAC Rule 3745-66-95(C) [40 CFR § 265.195(g)], the owner or operator must document in the operating record of the facility an inspection of the items listed above.

During the inspection of Building X-700, the inspectors asked about the daily tank inspection logs for Tank 2 and Tank 3. USEC personnel told the inspectors that the daily inspection logs had been maintained until 3/4/2009. At the time of the inspection, USEC had not maintained the daily inspection logs for almost four months. USEC, therefore, failed to comply with the above-mentioned condition for a storage license exemption and violated the tank inspection requirement.

- 3) With few exceptions, Rules 3745-279-20 to 3745-279-24 of the OAC apply to all used oil generators. See, OAC Rule 3745-279-20(A). One requirement imposed on used oil generators is that containers and aboveground tanks used to store used oil at generator facilities be labeled or marked clearly with the words "Used Oil." See, OAC Rule 3745-279-22(C) [40 CFR § 279.22].

During the inspection of the Building X-750, the inspectors observed a 55-gallon container used to store used oil that was not labeled "Used Oil." At the time of the inspection, USEC personnel labeled the container "Used Oil." EPA considers this violation resolved.

- 4) A large quantity handler of universal waste must manage lamps in a way that prevents releases of any universal waste or component of a universal waste to the environment. Specifically, a large quantity handler of universal waste must contain any lamp in containers or packages that are structurally sound, adequate to prevent breakage, and compatible with the contents of the lamps. Such containers and packages must remain



closed and must lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions. See, OAC Rule 3745-273-33(D)(1).

During the inspection of the Buildings X-700 and X-326, the inspectors observed several plastic bags containing used fluorescent lamps. The plastic bags were not structurally sound to prevent breakage of the used fluorescent lamps. At the time of the inspection, USEC was, therefore, in violation of OAC Rule 3745-273-33(D)(1) [40 CFR § 273.33(d)(1)].

In addition, at the time of the inspection of the Garage Building, the inspectors observed several vehicles with lead acid batteries even though they appeared to be out of service (e.g., two golf carts). USEC should develop a Standard Operating Procedure (SOP) for determining when used lead acid batteries should be removed from excess vehicles. Spent lead acid batteries which are not managed under OAC Rule 3745-58-70 are subject to management under OAC Chapter 3745-273. See, OAC Rule 3745-273-02. An unused battery becomes a waste on the date the handler decides to discard it. See, OAC Rule 3745-273-02(C)(2).

A large quantity generator who accumulates hazardous waste on-site for 90 days or fewer and who does not meet the conditions for a permit exemption of OAC Rule 3745-52-34 is an operator of a hazardous waste storage facility, and is required to apply for and obtain an Ohio hazardous waste storage permit. See, OAC 3745-52-34(A), 3745-50-41(A), 3745-50-45(A).

At this time, EPA is not requiring USEC to apply for storage permit so long as it immediately establishes compliance with the conditions for an exemption outlined above. According to Section 3008(a) of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6928(a), EPA may issue an order assessing a civil penalty for any past or current violation and requiring compliance immediately or within a specified time period. Although this letter is not such an order, we request that you submit a response in writing to this office no later than thirty (30) days after receipt of this letter documenting the actions, if any, which have been taken since the inspection to establish compliance with the above conditions and requirements.

You should submit your response to Walt Francis, U.S. Environmental Protection Agency, Region 5, 77 West Jackson Boulevard, LR-8J, Chicago, Illinois 60604. You should also submit a copy of your response to Melody Stewart at the OEPA Southeast District Office, 2195 Front Street, Logan, Ohio 45138.

If you have any questions regarding this letter, please contact Walt Francis, of my staff, at (312) 353-4921.

Sincerely,

A handwritten signature in cursive script, reading "Mary Setnicar".

Mary S. Setnicar  
Acting Chief, RCRA Branch  
Land and Chemicals Division

Enclosure

cc: Melody Stewart, OEPA-Southeast District Office

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 W. JACKSON BOULEVARD  
CHICAGO, ILLINOIS 60604

RCRA COMPLIANCE EVALUATION INSPECTION REPORT

FACILITY NAME: US ENRICHMENT CORPORATION PORTSMOUTH  
GASEOUS DIFFUSION PLANT

FACILITY U.S. EPA ID NO.: OHD 987 054 723  
FACILITY TYPE: Large Quantity Generator  
FACILITY ADDRESS: 3930 US Route 23 South  
Piketon, Ohio 45661

U.S. EPA REPRESENTATIVE: Walt Francis

DATE(S) OF INSPECTION: June 22nd and June 23rd, 2009

SIC CODE: 2819 - Industrial Inorganic Chemicals, Not Elsewhere  
Classified

NAICS CODE: 325188 - All Other Basic Inorganic Chemical  
Manufacturing

PREPARED BY: Walt Francis  
Walt Francis  
Environmental Scientist

7/13/09  
Date

ACCEPTED BY: Paul Little  
Paul Little, Chief  
Compliance Section 2  
RCRA Branch

7-13-09  
Date

## **Purpose of Inspection**

The purpose of this inspection was to conduct a Compliance Evaluation Inspection (CEI) at the US Enrichment Corporation Portsmouth Gaseous Diffusion Plant (USEC), Piketon, Ohio to determine its compliance with the Resource Conservation and Recovery Act (RCRA) and the Ohio Administrative Code (OAC), with respect to USEC's management of hazardous waste, universal waste and used oil.

## **Participants**

United States Environmental Protection Agency (U.S. EPA) Inspector -  
Walt Francis, Environmental Scientist

Ohio Environmental Protection Agency (Ohio EPA) Inspector -  
Melody Stewart, Hazardous Waste Inspector

Representatives of USEC -

Barbara Halcomb – Acting Manager, Environmental Compliance/Waste Management

Jeff Kemp, Environmental Engineer

Kenneth Horsley, Environmental Engineer

Bryan Corbin, Section Manager, Environmental Compliance/Waste Management

## **Site Description/Background Information**

Historically, the main function of the U.S. DOE-Portsmouth (Portsmouth) facility was to enrich uranium for military use (nuclear submarines) and commercial reactors through a gaseous diffusion process. This involved the separation of U235 from the U238 isotope in uranium hexafluoride (UF6) feedstock which contains 0.711% U235. The Plant had produced enriched uranium continuously since September 1954. In 1993, the uranium enrichment facilities at the plant were leased to the United States Enrichment Corporation (USEC). U.S. DOE retained ownership of the ongoing site environmental restoration program as well as two permitted hazardous waste storage facilities.

Numerous other activities associated with the plant's main function also occur on-site and are leased by USEC. These include decontamination of equipment and uranium recovery (X-705 Bldg.); chemical cleaning of equipment (X-700); maintenance crafts, including paint, sheet metal, machining, valve, compressor, welding, electrical, motor rewind, metallurgy, instruments and carpentry (X-720); laboratory services (X-710); wastewater treatment (X-6619); water treatment (X-611); chromium removal (X-616); uranium operations, fluorine generation and cylinder handling (X-344); photo and printing lab (X-100); vehicle repair (X-750); coal pile runoff treatment (X-621); and electrical and utilities system.

Hazardous waste and mixed waste which was generated from the gaseous diffusion and associated processes leased by USEC is stored in U.S. DOE owned and permitted storage facilities. Waste generated by U.S. DOE and LATA/Parallax from the environmental restoration

is also stored in these facilities. USEC also generates non mixed radioactive hazardous waste which is shipped out of Building XT-847. USEC ceased the enrichment process in May 2001.

Uranium contaminated hazardous wastes (mixed waste) which were/are generated by USEC and U.S. DOE are stored on-site in U.S. DOE-owned and operated hazardous waste container storage facilities for longer than one year. Historically, this was due to the limited number of treatment, storage and disposal (TSD) facilities in the United States which could accept mixed waste, and a May 1991 U.S. DOE moratorium on off-site waste shipment. A large percentage of the waste generated at Portsmouth is U.S. DOE-generated mixed waste from the site-wide cleanup activities. This is also stored in U.S. DOE-owned storage areas.

USEC generated hazardous wastes are primarily shipped to Permafix in Florida. In addition, a wide variety of radioactive and other nonhazardous wastes are generated as a result of the above processes. USEC, Inc. is working on a pilot centrifuge project to purify uranium U235 in the X-7725 Building. On November 24, 2008, Ohio EPA sent a Notice of Violation to USEC based on a November 3, 2008, inspection which included storing hazardous waste for greater than 90 days in tanks without obtaining a hazardous waste facility installation and operation permit, failure to make a hazardous waste determination, failure to label containers of used oil, and failure to label or mark a container of universal waste.

### **Opening Conference**

On June 22, 2009, U.S. EPA representative Walt Francis and Ohio EPA representative Melody Stewart met with Ms. Barbara Halcomb, Mr. Jeff Kemp and Mr. Kenneth Horsley in a conference room in Building XT-847 and informed the USEC representatives of the nature, scope, and procedures of the RCRA inspection. The inspection was conducted by U.S. EPA and OEPA personnel as a Federal lead inspection. The facility representatives provided the team with a brief update of the facility since the last inspection. Ms. Barbara Halcomb allowed the inspectors access to the facility to conduct the inspection.

### **Site Tour**

The walk-through began in Building X-705 where USEC maintains two less than 90 day accumulation areas, several satellite accumulation areas (SAAs), and one universal waste staging area. Prior to entering the controlled area of Building X-705, the inspectors, Mr. Kemp and Mr. Horsley had to don coveralls, plastic boots, protective gloves, and safety glasses. Mr. Todd Bobst met the inspection team in Building X-705, and showed the inspectors the SAAs and the Furnace Stand heavy metal sludge accumulation containers. The walkthrough continued to a less than 90 day accumulation area (X-705 Micro), where USEC operates a heavy metal precipitation unit that generates radioactive heavy metal precipitate and filter paper. The walkthrough continued in Building X-705 to H Area, and then to the first floor where USEC maintains an oil and grease separation unit. The walkthrough continued to Building X-700 where the inspectors observed a less than 90 day hazardous waste accumulation area (X-700 F.S.), which contained

four 55-gallon container of heavy metal precipitate from Building X-705. The walkthrough continued to an area in Building X-700 where USEC maintains a tanker truck utilized for the accumulation of water from sumps in the basement of Building X-700 (X-700 C.S.). The tanker truck is identified as a less than 90 day hazardous waste accumulation area. The inspectors also observed several boxes and a plastic bag of used fluorescent lamps. The inspectors met Mr. John Yeagle who maintained a notebook of daily tank inspection records for the inground tanks in Building X-700. The walkthrough continued through Building X-700 to the in-ground tank area. Inspector Francis observed that Tanks #2 and #3 had an accumulation date of 12/9/08, Tank #4 had an accumulation date of 12/9/08 and Tank #1 had an accumulation date of 3/11/09. The inspection continued to Building X-720, where USEC maintains several less than 90 day accumulation areas, SAAs, and universal waste staging areas. Also, in Building X-720, USEC maintains a Paint Shop which has a SAA and a less than 90 day accumulation area. In Building X-720C, the inspectors observed a less than 90 day area that was empty. Also, in Building X-720C, USEC stores various oils and used oil. The walkthrough continued at Building X-750 where USEC operates a maintenance area for on-site vehicles. This includes one less than 90 day hazardous waste accumulation area, a SAA, and a used lead acid battery accumulation area. In addition, USEC accumulates used oil in containers in Building X-750. USEC stores various vehicles around Building X-750. The inspection observed two golf carts and a large pump that contained lead acid batteries. The walkthrough continued at Building X-333, where the inspectors met Ms. Vicki Glenn. In Building X-333, USEC maintains two areas for less than 90 day hazardous waste accumulation, SAAs and universal waste staging areas. The walkthrough continued at Building X-330, where USEC maintains two areas for less than 90 day hazardous waste accumulation, two SAAs and four universal waste staging areas. The walkthrough continued at Building X-326 where USEC maintains three areas for less than 90 day hazardous waste accumulation, SAAs and universal waste staging areas. The walkthrough continued to Warehouse 9 where USEC accumulates lead acid batteries prior to off-site shipment. The walkthrough continued at Building X-7721 where the inspectors observed several SAA containers and some Universal Waste used lamps and then the inspection continued to Building X-710 where the inspectors met Mr. Brian Pyles. USEC maintains two less than 90 day hazardous waste accumulation areas, several SAAs and a universal waste staging area in Building X-710. The walkthrough continued in Building X-710 to rooms 101, 103, 113, 144, 212, 213, 254, and 263. The inspection continued at the Steam Plant. The inspectors observed two 55-gallon containers labeled "Beryllium Waste", a rusty 5-gallon container, one oxide battery, and four rusty 55-gallon containers, several plastic buckets in a waste pile (see photograph) and one blue plastic 55-gallon container (see photographs). The inspectors returned to Building XT-847, where USEC maintains several less than 90 day accumulation areas, SAAs, used oil area, and a universal waste staging area.

The inspectors then returned to the conference room in Building XT-847 to review records.

### **Records Review**

A record review was conducted. The inspection team requested to review hazardous waste

manifests, land disposal restriction forms, mixed-waste shipment documentation, universal waste and used oil shipping records, personnel training information, weekly inspection logs and the latest version of the contingency plan. The inspectors reviewed hazardous waste manifests since the date of the last inspection, two years of personnel training records, and weekly inspection logs. The inspectors reviewed a July 24, 2008, revision of the Contingency Plan.

### **Closing Conference**

The inspectors conducted a closing conference. Inspector Francis explained that he would review his notes from the inspection, and generate an inspection report. USEC would then receive a letter from U.S. EPA regarding the inspection including a copy of the inspection report, and completed inspection checklists. The inspectors notified the facility that they had concerns about the accumulation of used fluorescent bulbs in clear plastic bags. Inspector Francis mentioned that the daily tank inspections in Building X-700 had stopped on 3/4/2009, and during the inspection of Building X-750 a container of used oil was not labeled, and during the inspection of Building X-7721, the inspectors observed a 55-gallon SAA container that was full with a "4/22/09" sampling date on the drum. The inspectors reminded the USEC staff that a full SAA container should be moved to a less than 90 day accumulation area within three days. In addition, the inspectors discussed the various containers observed around the Steam Plant.

### **Attachments**

Inspection Checklists.



**LARGE QUANTITY GENERATOR REQUIREMENTS**  
**COMPLETE AND ATTACH A PROCESS DESCRIPTION SUMMARY**

CESQG:  $\leq 100$  Kg. (Approximately 25-30 gallons) of waste in a calendar month or  $< 1$  Kg. of acutely hazardous waste.

3QG: Between 100 and 1,000 Kg. (About 25 to under 300 gallons) of waste in a calendar month.

LQG:  $\geq 1,000$  Kg. ( $\sim 300$  gallons) of waste in a calendar month or  $\geq 1$  Kg. of acutely hazardous waste in a calendar month.

NOTE: To convert from gallons to pounds: Amount in gallons x Specific Gravity x 8.345 = Amounts in pounds.

Safety Equipment Used:

**GENERAL REQUIREMENTS**

1. Have all wastes generated at the facility been adequately evaluated? [3745-52-11] *STEP 1 - WASTE* Yes ☐ No ☒ N/A ☐
2. Are records of waste determination being kept for at least 3 years? [3745-52-40(C)] Yes ☒ No ☐ N/A ☐
3. Has the generator obtained a U.S. EPA identification number? [3745-52-12] Yes ☒ No ☐ N/A ☐
4. Were annual reports filed with Ohio EPA on or before March 1<sup>st</sup>? [3745-52-41(A)] Yes ☒ No ☐ N/A ☐
5. Are annual reports kept on file for at least 3 years? [3745-52-40(B)] Yes ☒ No ☐ N/A ☐
6. Has the generator transported or caused to be transported hazardous waste to other than a facility authorized to manage the hazardous waste? [ORC 3734.02(F)] Yes ☐ No ☒ N/A ☐
7. Has the generator disposed of hazardous waste on-site without a permit or at another facility other than a facility authorized to dispose of the hazardous waste? [ORC 3734.02(E) & (F)] Yes ☐ No ☒ N/A ☐
8. Does the generator accumulate hazardous waste? Yes ☒ No ☐ N/A ☐

NOTE: If the LQG does not accumulate or treat hazardous waste, it is not subject to 52-34 standards. All other requirements still apply, e.g., annual reports, manifest, marking, record keeping, LDR, etc.

9. Has the generator accumulated hazardous waste on-site in excess of 90 days without a permit or an extension from the director ORC §3734.02 (E) & (F)? Yes ☐ No ☒ N/A ☐

NOTE: If F006 waste is generated and accumulated for  $> 90$  days and is recycled see 3745-52-34(G) & (H).

10. Does the generator treat hazardous waste in a: [ORC 3734.02(E)&(F)]
- a. Container that meets 3745-66-70 to 3745-66-77? Yes ☐ No ☒ N/A ☐
- b. Tank that meets 3745-66-90 to 3745-66-101 except 3745-66-97 (C)? Yes ☐ No ☒ N/A ☐
- c. Drip pads that meet 3745-69-40 to 3745-69-45? Yes ☐ No ☒ N/A ☐
- d. Containment building that meets 3745-256-100 to 3745-256-102? Yes ☐ No ☒ N/A ☐

NOTE: Complete appropriate checklist for each unit.

NOTE: If waste is treated to meet LDRs, use LDR checklist.

11. Does the generator export hazardous waste? If so: Yes ☐ No ☒ N/A ☐
- a. Has the generator notified U.S. EPA of export activity? [3745-52-53(A)] Yes ☐ No ☐ N/A ☐
- b. Has the generator complied with special manifest requirements? [3745-52-54] Yes ☐ No ☐ N/A ☐
- c. For manifests that have not been returned to the generator: has an exception report been filed? [3745-52-55] Yes ☐ No ☐ N/A ☐
- d. Has an annual report been submitted to U.S. EPA? [3745-52-56] Yes ☐ No ☐ N/A ☐
- e. Are export related documents being maintained on-site? [3745-52-57(A)] Yes ☐ No ☐ N/A ☐

**MANIFEST REQUIREMENTS**

12. Have all hazardous wastes shipped off-site been accompanied by a manifest? (U.S. EPA Form 8700-22) [3745-52-20(A)] Yes ☒ No ☐ N/A ☐
13. Have items (1) through (20) of each manifest been completed? [3745-52-20(A)] Yes ☒ No ☐ N/A ☐
- NOTE: U.S. EPA Form 8700-22(A) (the continuation form) may be needed in addition to Form 8700-22. In these situations items (21) through (35) must also be completed. [3745-52-20(A)]
14. Does each manifest designate at least one facility which is permitted to handle the waste? [3745-52-20(B)] Yes ☒ No ☐ N/A ☐

NOTE: The generator may designate on the manifest one alternate facility to handle the waste in the event of an emergency which prevents the delivery of waste to the primary designated facility. [3745-52-20(C)].

15. If the transporter was unable to deliver a shipment of hazardous waste to the designated facility did the generator designate an alternate TSD facility or give the transporter instructions to return the waste? [3745-52-20(D)] Yes ☐ No ☐ N/A ☒
16. Have the manifests been signed by the generator and initial transporter? [3745-52-23(A)(1) & (2)] Yes ☒ No ☐ N/A ☐

NOTE: Remind the generator that the certification statement they signed indicates: 1) they have properly prepared the shipment for transportation and 2) they have a program in place to reduce the volume and toxicity waste they generate.

17. If the generator did not receive a return copy of each completed manifest within 35 days of the waste being accepted by the transporter did the generator contact the transporter and/or TSD facility to check on the status of the waste? [3745-52-42(A)(1)] Yes ☐ No ☐ N/A ☒
18. If the generator has not received the manifest within 45 days, did the generator file an exception report with Ohio EPA? [3745-52-42(A)(2)] Yes ☐ No ☐ N/A ☒
19. Are signed copies of all manifests and any exception reports being retained for at least three years? [3745-52-40] Yes ☒ No ☐ N/A ☐

NOTE: Waste generated at one location and transported along a publicly accessible road for temporary consolidated storage or treatment on a contiguous property also owned by the same person is not considered "on-site" and manifesting and transporter requirements must be met. To transport "along" a public right-of-way the destination facility has to act as a transfer facility or have a permit because this is considered to be "off-site." For additional information see the definition of "on-site" in OAC rule 3745-50-10.

## PERSONNEL TRAINING

20. Does the generator have a training program which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to their positions? [3745-65-16(A)(2)] Yes ☒ No ☐ N/A ☐
21. Does the personnel training program, at a minimum, include instructions to ensure that facility personnel are able to respond effectively to emergencies involving hazardous waste by familiarizing them with emergency procedures, emergency equipment and emergency systems (where applicable)? [3745-65-16(A)(3)(a-f)] Yes ☒ No ☐ N/A ☐
22. Is the personnel training program directed by a person trained in hazardous waste management procedures? [3745-65-16(A)(2)] Yes ☒ No ☐ N/A ☐
23. Do new employees receive training within six months after the date of hire (or assignment to a new position)? [3745-65-16(B)] Yes ☒ No ☐ N/A ☐
24. Does the generator provide annual refresher training to employees? [3745-65-16(C)] Yes ☒ No ☐ N/A ☐
25. Does the generator keep records and documentation of:
- a. Job titles [3745-65-16D(1)]? Yes ☒ No ☐ N/A ☐
  - b. Job descriptions [3745-65-16D(2)]? Yes ☒ No ☐ N/A ☐
  - c. Type and amount of training given to each person [3745-65-16D(3)]? Yes ☒ No ☐ N/A ☐
  - d. Completed training or job experience required [3745-65-16D(4)]? Yes ☒ No ☐ N/A ☐
26. Are training records for current personnel kept until closure of the facility and are training records for former employees kept for at least three years from the date the employee last worked at the facility? [3745-65-16(E)] Yes ☒ No ☐ N/A ☐

NOTE: The following section can be used by the inspector to document that all personnel who are involved with hazardous waste management have been trained. The employees who need training (written and/or on-the-job) may include the following: environmental coordinators, drum handlers, emergency coordinators, personnel who conduct hazardous waste inspections, emergency response teams, personnel who prepare manifest, etc.

Job Performed	Name of Employee	Date Trained
	Beverly Kelley	12/1/02
	Vickie Glenn	4/8/03
	Orin Pyle	1/14/07 - new hire

## CONTINGENCY PLAN

27. Does the owner/operator have a contingency plan to minimize hazards to human health or the environment from fires, explosions or any unplanned release of hazardous waste? [3745-65-51(A)] Yes ☒ No ☐ N/A ☐
28. Does the plan describe the following:
- a. Actions to be taken in response to fires, explosions or any unplanned release of hazardous waste [3745-65-52(A)]? Yes ☒ No ☐ N/A ☐
  - b. Arrangements with emergency authorities [3745-65-52(C)]. Yes ☒ No ☐ N/A ☐
  - c. A current list of names, addresses and telephone numbers (office and home) of all persons qualified to act as emergency coordinator? [3745-65-52(D)] Yes ☒ No ☐ N/A ☐
  - d. A list of all emergency equipment, including: location, a physical description and brief outline of capabilities? [3745-65-52(E)] Yes ☒ No ☐ N/A ☐

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- e. An evacuation plan for facility personnel where there is possibility that evacuation may be necessary? [3745-65-52(F)] Yes ☒ No ☐ N/A ☐

NOTE: If the facility already has a "Spill Prevention, Control and Counter measures Plan" under CFR Part 112 or 40 CFR Part 1510, or some other emergency plan, the facility can amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with OAC requirements. [3745-65-52(B)]

29. Is a copy of the plan (plus revisions) kept on-site and been given to all emergency authorities that may be requested to provide emergency services? [3745-65-53 (A) & (B)] Yes ☒ No ☐ N/A ☐

30. Has the generator revised the plan in response to rule changes, facility, equipment and personnel changes, or failure of the plan? [3745-65-54] Yes ☒ No ☐ N/A ☐

31. Is an emergency coordinator available at all times (on-site or on-call)? [3745-65-55] *Steve May* Yes ☒ No ☐ N/A ☐

NOTE: The emergency coordinator shall be thoroughly familiar with: (a) all aspects of the facility's contingency plan; (b) all operations and activities at the facility; (c) the location and characteristics of waste handled; (d) the location of all records within the facility; (e) facility layout; and (f) shall have the authority to commit the resources needed to implement provisions of the contingency plan.

### EMERGENCY PROCEDURES

32. Has there been a fire, explosion or release of hazardous waste or hazardous waste constituents since the last inspection? If so: Yes ☐ No ☒ N/A ☐

- a. Was the contingency plan implemented? [3745-65-51(B)] Yes ☐ No ☐ N/A ☒  
b. Did the facility follow the emergency procedures in 3745-65-56(A) through (H)? Yes ☐ No ☐ N/A ☒  
c. Did the facility submit a report to the Director within 15 days of the incident as required by 3745-65-56(J)? Yes ☐ No ☐ N/A ☒

NOTE: OAC 3745-65-51(b) requires that the contingency plan be implemented immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents, which could threaten human health and the environment.

### PREPAREDNESS AND PREVENTION

33. Is the facility operated to minimize the possibility of fire, explosion, or any unplanned release of hazardous waste? [3745-65-31] Yes ☒ No ☐ N/A ☐

34. Does the generator have the following equipment at the facility, if it is required due to actual hazards associated with the waste:

- a. Internal communications or alarm system? [3745-65-32(A)] Yes ☒ No ☐ N/A ☐  
b. Emergency communication device? [3745-65-32(B)] Yes ☒ No ☐ N/A ☐  
c. Portable fire control, spill control and decon equipment? [3745-65-32(C)] Yes ☒ No ☐ N/A ☐  
d. Water of adequate volume/pressure per documentation or facility rep? [3745-65-32(D)] Yes ☒ No ☐ N/A ☐

NOTE: Verify that the equipment is listed in the contingency plan.

35. Is emergency equipment tested (inspected) as necessary to ensure its proper operation in time of emergency? [3745-65-33] Yes ☒ No ☐ N/A ☐

36. Are emergency equipment tests (inspections) recorded in a log or summary? [3745-65-33] Yes ☒ No ☐ N/A ☐

37. Do personnel have immediate access to an internal alarm or emergency communication device when handling hazardous waste (unless the device is not required under 3745-65-32)? [3745-65-34(A)] Yes ☒ No ☐ N/A ☐

38. If there is only one employee on the premises, is there immediate access to a device (ex.phone, hand held two-way radio) capable of summoning external emergency assistance? (Unless not required under 3745-65-32) [3745-65-34(B)] Yes ☒ No ☐ N/A ☐

39. Is adequate aisle space provided for unobstructed movement of emergency or spill control equipment? [3745-65-35] Yes ☒ No ☐ N/A ☐

40. Has the generator attempted to familiarize emergency authorities with possible hazards and facility layouts? [3745-65-37(A)] Yes ☒ No ☐ N/A ☐

41. Where authorities have declined to enter into arrangements or agreements, has the generator documented such a refusal? [3745-65-37(B)] Yes ☒ No ☐ N/A ☐

### SATELLITE ACCUMULATION AREA REQUIREMENTS

42. Does the generator ensure that satellite accumulation area(s):

- a. Are at or near a point of generation? [3745-52-34(C)(1)] Yes ☒ No ☐ N/A ☐  
b. Are under the control of the operator of the process generating the waste? [3745-52-34(C)(1)] Yes ☒ No ☐ N/A ☐  
c. Do not exceed a total of 55 gallons of hazardous waste per waste stream? [3745-52-34(C)(1)] Yes ☒ No ☐ N/A ☐

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- d. Do not exceed one quart of acutely hazardous waste at any one time? [3745-52-34(C)(1)] Yes ☒ No ☐ N/A ☐
- e. Containers are closed, in good condition and compatible with wastes stored in them? [3745-52-34(C)(1)(a)] Yes ☒ No ☐ N/A ☐
- f. Containers are marked with words "Hazardous Waste" or other words identifying the contents? [3745-52-34(C)(1)(b)] Yes ☒ No ☐ N/A ☐
43. Is the generator accumulating hazardous waste(s) in excess of the amounts listed in the preceding question? If so: Yes ☒ No ☐ N/A ☐
- a. Did the generator comply with 3745-52-34(A)(1) through (4) or other applicable generator requirements within three days? [3745-52-34(C)(2)] Yes ☒ No ☐ N/A ☐
- b. Did the generator mark the container(s) holding excess with the accumulation date when the 55 gallon (one quart) limit was exceeded? [3745-52-34(C)(2)] Yes ☒ No ☒ N/A ☐ 8/4. X-7721

NOTE: The satellite accumulation area is limited to 55 gallons of hazardous waste accumulated from a distinct point of generation in the process under the control of the operator of the process generating the waste (less than 1 quart for acute hazardous waste). There could be individual waste streams accumulated in an area from different points of generation.

#### USE AND MANAGEMENT OF CONTAINERS IN <90 DAY ACCUMULATION AREAS

44. Has the generator marked containers with the words "Hazardous Waste"? [3745-52-34(A)(3)] Yes ☒ No ☐ N/A ☐
45. Is the accumulation date on each container? [3745-52-34(A)(2)] Yes ☒ No ☐ N/A ☐
46. Are hazardous wastes stored in containers which are:
- a. Closed (except when adding/removing wastes)? [3745-66-73(A)] Yes ☒ No ☐ N/A ☐
- b. In good condition? [3745-66-71] Yes ☒ No ☐ N/A ☐
- c. Compatible with wastes stored in them? [3745-66-72] Yes ☒ No ☐ N/A ☐
- d. Handled in a manner which prevents rupture/leakage? [3745-66-73(B)] Yes ☒ No ☐ N/A ☐

NOTE: Record location on process summary sheets, photograph the area, and record on facility map.

47. Is the container accumulation areas(s) inspected weekly? [3745-66-74] Per ORC § 1.44(A) "Week" means 7 consecutive days. Yes ☒ No ☐ N/A ☐
- a. Are inspections recorded in a log or summary? [3745-66-74] Yes ☒ No ☐ N/A ☐
48. Are containers of ignitable or reactive wastes located at least 50 feet (15 meters) from the facility's property line? [3745-66-76] Yes ☒ No ☐ N/A ☐
49. Are containers of incompatible wastes stored separately from each other by means of a dike, berm, wall or other device? [3745-66-77(C)] Yes ☒ No ☐ N/A ☐
50. If the generator places incompatible wastes, or incompatible wastes and materials in the same container, is it done in accordance with 3745-65-17(B)? [3745-66-77(A)] Yes ☒ No ☐ N/A ☐
51. If the generator places hazardous waste in an unwashed container that previously held an incompatible waste, is it done in accordance with 3745-65-17(B)? [3745-66-77(B)] Yes ☐ No ☐ N/A ☒

NOTE: OAC 3745-65-17(B) requires that the generator treat, store, or dispose of ignitable or reactive waste, and the mixture or commingling of incompatible wastes, or incompatible wastes and materials so that it does not create undesirable conditions or threaten human health or the environment.

52. If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)] Yes ☐ No ☐ N/A ☒

NOTE: Please provide a description of the unit and documentation provided by the generator for the file to demonstrate that closure was completed in accordance with the closure performance standards. If the generator has closed a <90 day tank, closure must also be completed in accordance with OAC 3745-66-97 (except for paragraph C of this rule). [3745-52-34]

#### PRE-TRANSPORT REQUIREMENTS

53. Does the generator package/label its hazardous waste in accordance with the applicable DOT regulations? [3745-52-30, 3745-52-31 and 3745-52-32(A)] Yes ☒ No ☒ N/A ☐ no name on label
54. Does each container <110 gallons have a completed hazardous waste label? [3745-52-32(B)] Yes ☐ No ☒ N/A ☐
55. Before off-site transportation, does the generator placard or offer the appropriate DOT placards to the initial transporter? [3745-52-33] Yes ☒ No ☐ N/A ☐

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**GENERATOR LDR CHECKLIST  
DOES NOT APPLY TO CESQGS**

**GENERAL REQUIREMENTS**

- |    |  |  |
|----|--|--|
| 1. | If LDRs do not apply, does the generator have a statement that lists how the HW was generated, why LDRs don't apply and where the HW went? [3745-270-07 (A)(7)]                  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 2. | Did the generator determine if the HW/soil must be treated to meet the LDR treatment standard prior to disposal? Generator knowledge or testing may be used. [3745-270-07(A)(1)] | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |

*NOTE: This is done by determining if the HW /soil contains levels of constituents greater than the levels given in its LDR treatment standard in 3745-270-40. However, if a specific treatment method is given in 3745-270-40 for the HW, no determination is required [3745-270-07 (A)(1)(b)]. If soil, generator can choose to have soil treated to LDR levels given in 3745-270-49 (alternative treatment levels for soils).*

- |    |  |  |
|----|--|--|
| 3. | Does the generator have documentation of how he determined whether the HW/soil meets or does not meet the LDR treatment standard in 2, above? [3745-270-07(A)(6)(a) or 3745-270-07(A)(6)(b)]           | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 4. | Does the generator keep the documentation required in #2, above, on-site for at least three years from the last date the HW/soil was sent on-site/off-site for treatment/disposal? [3745-270-07(A)(8)] | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| 5. | Does the generator generate a listed HW that exhibits a characteristic? If yes,  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| a. | Did the generator determine if the listed HW exhibits a characteristic that is not treated under the LDR treatment standard for the listed HW? [3745-270-09(A)]  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |

*FOR EXAMPLE: F006 that exhibits the characteristic for silver or K062 that is corrosive, D002. Review LDR treatment standard in 3745-270-40 to determine what constituents the listed HW is treated for.*

- |    |   |  |
|----|---|--|
| 6. | Did the generator determine if its characteristic HW contains underlying hazardous constituents that need to be treated? [3745-270-09(A)] | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
|----|---|--|

*NOTE: This is done by evaluating which underlying hazardous constituents (UHC) are in the HW at levels above the universal treatment standards given in 3745-270-48. This requirement does not apply to high total organic carbon (i.e., contains >10% TOC) D001 wastes or listed HWs.*

*NOTE: Written documentation of this determination is not required.*

- |    |   |  |
|----|---|--|
| 7. | Did the generator treat his HW /soil on-site <u>to meet</u> the LDR treatment standard? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> |
|----|---|--|

*NOTE If "Yes" see question #16.*

- |     |  |  |
|-----|--|--|
| 8.  | Did the generator send a one-time LDR notification form to the TSD with the first shipment to that facility?[3745-270-07(A)(2)]          | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 9.  | Did the generator resubmit the LDR notification form to the TSD when the HW changed or the generator used a new TSD? [3745-270-07(A)(2)] | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| 10. | Does the generator have a copy of the LDR notification form on file?[3745-270-07(A)(2)]  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| a.  | Is the form kept on file for three years after last HW shipped? [3745-270-07(A)(8)]  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |

**NOTIFICATION FORM**

- |     |   |  |
|-----|---|--|
| 11. | Does the LDR Notification form contain the following information:   |  |
| a.  | Manifest number of the first waste shipment to the TSD?[3745-270-07(A)(2)]  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| b.  | Applicable waste codes (includes characteristic codes for a listed HW if applicable)? [3745-270-07(A)(2)]                           | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| c.  | A statement that conveys that the HW is subject to LDRs and must be treated to meet LDR treatment requirements? [3745-270-07(A)(2)] | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |
| d.  | A designation whether the HW is a wastewater or non-wastewater? [3745-270-07(A)(2)].  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> |

NOTE: A wastewater contains <1% by wt. total suspended solids(TSS) and <1% by wt. TOC. If you doubt the HW is a wastewater or non-wastewater, the HW can be tested using for example, Standard Methods (SM) 160.2 for TSS, SW-846 method 9060a for TOC.

e.	Designation of the waste subcategory when applicable? [3745-270-07(A)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
----	--	--

NOTE: Subcategories are found on the LDR treatment standards table under the applicable waste code. Not all HWs have subcategories

f.	A listing of the underlying hazardous constituents for which a characteristic waste must be treated? [3745-270-07(A)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
----	--	--

NOTE: Not required if the waste is high TOC D001 or the TSD tests its treatment residues for all underlying hazardous constituents.

g.	If the HW is F001-F005 or F039, did the generator note on the LDR form what solvents or constituents, respectively, the waste contains and must be treated for?[3745-270-07(A)(2)]	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
----	--	--

NOTE: Not required if the TSD tests its treatment residues for all underlying hazardous constituents.

#### PROHIBITED DILUTION

12.	Is the HW treated by burning?  If "No," go to #15.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
13.	Is the HW a metal-bearing HW?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

NOTE: Generally, metal-bearing HWs contain heavy metals above TCLP levels or were listed due to the presence of metals. A list of the restricted metal-bearing HWs are given in the Appendix to 3745-270-03.

14.	a.	Metal-bearing HWs cannot be incinerated, combusted or, blended and burned for fuel unless <u>one</u> of the following conditions apply. [3745-270-03(c)]	
	i.	Contains > 1% TOC?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	ii.	Contains organic constituents or cyanide at levels greater than the UST levels?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	iii.	Is made up of combustible material e.g., paper, wood, plastic?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	iv.	Has a reasonable heating value (e.g., > 5000 Btu)?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	v.	Co-generated with a HW that must be combusted?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	b.	If all responses to 14 a.i. through 14 a.v. are "No", HW is being improperly treated by dilution, violation of 3745-270-03(C). Is HW being treated by dilution?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
15.		Was the HW treated by wastewater treatment?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
	a.	Is a LDR treatment method, other than DEACT or a numerical value, specified for the waste? [3745-270-03(B) and 3745-270-40(A)(3)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

NOTE: If Yes, HW is improperly being treated by dilution.

b.	Does the waste carry the D001 code <u>and</u> contain $\geq 10\%$ TOC?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
c.	Does the wastewater treatment process include a process to separate/recover the organic phase of the waste?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

NOTE: If the answers to b & c are "yes" and "no", respectively, waste is improperly being treated by dilution and generator is in violation of [3745-270-03(B) and 3745-270-40(A)(3)].

NOTE: A list of separation/recovery processes are given in 3745-270-42 under RORG.

GENERATOR TREATMENT			
16.	Does the generator treat to meet LDRs on-site [3745-270-40(A)]?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
	Did the generator treat his hazardous waste/soil on-site in a tank, container, drip pad or containment building to meet the LDR treatment standard?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
	If "Yes"...complete the rest of the checklist. If "No"...stop...you are done.		
a.	Does the generator have a written waste analysis plan (WAP) that describes the procedures he will follow to treat the HW/soil to the LDR treatment standard? [3745-270-07(A)(5)]		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
b.	Did the generator use a detailed chemical and physical analysis of the HW/soil in order to develop the WAP? [3745-270-07(A)(5)(a)]		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<i>NOTE: This is a laboratory analysis but it does not have to be kept by the generator.</i>			
c.	Does the WAP contain all information necessary to treat the HW/soil to the LDR treatment standard? [3745-270-07(A)(5)(a)]		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
d.	Does the WAP include the testing frequency of the treated HW/soil to demonstrate that the LDR treatment standard is being met? [3745-270-07(A)(5)(a)]		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
e.	Does the generator keep the WAP on-site? [3745-270-07(A)(5)(b)]		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
f.	Is the WAP available for the inspector's review during the inspection? [3745-270-07(A)(5)(b)]		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
NOTIFICATION FORM			
17.	a.	Contains all information in #11 a-g above and	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	b.	<p>If the treated HW/soil is listed.....notification contains the following certification statement:</p> <p>" I certify under penalty of law that I personally have examined and am familiar with the waste, through analysis and testing or trough knowledge of the waste, to support this certification that the waste complies with the treatment stands specified in rule 3745-270-40 to 3745-270-49 of the Administrative Code. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."</p>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
	c.	If the treated HW/soil no longer exhibits a characteristic and is no longer a HW, did the generator:	
	i.	Send a one-time notification to the director?[3745-270- 09 (D)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	ii.	Maintain a copy of the notice onsite?[3745-270-09(D)]	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	iii.	Include in the notification: [3745-270-09(D)(1)(a)]	
	1.	Name & address of receiving landfill?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	2.	Description of HW when generated?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	3.	HW code when generated?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	4.	Treatability group when generated?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	5.	Underlying hazardous constituents present when generated?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
	iv.	Contain the right certification statement as required by 3745-70-07(b)(4)?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>



## LARGE QUANTITY UNIVERSAL WASTE HANDLER REQUIREMENTS - BATTERIES AND LAMPS

*Large Quantity Universal Waste Handler (LQUWH) = 5,000 Kg or more*

*Small Quantity Universal Waste Handler (SQUWH) = 5,000 Kg or less*

### GENERAL REQUIREMENTS

1. Has the LQUWH obtained a U.S. EPA Identification number before exceeding 5,000 kg limit? [3745-273-32(A)(1)] Yes ☒ No ☐ N/A ☐ RMK# ☐

### PROHIBITIONS

2. Did the LQUWH dispose of universal waste? [3845-273-31(A)] Yes ☐ No ☒ N/A ☐ RMK# ☐
3. Did the LQUWH dilute or treat universal waste, except when responding to releases or by managing specific wastes as provided in OAC 3745-273-33? [3745-273-31(B)] Yes ☐ No ☐ N/A ☒ RMK# ☐

### WASTE MANAGEMENT AND LABELING/MARKING

#### UNIVERSAL WASTE BATTERIES:

4. Are battery(ies) that show evidence of leakage, spillage or damage that could cause leaks contained? [3745-273-33(A)(1)] Yes ☒ No ☐ N/A ☐ RMK# ☐
5. If the batteries are contained, are the containers closed, structurally sound, compatible with the contents of the battery and lack evidence of leakage, spillage or damage that could cause leakage? Yes ☒ No ☐ N/A ☐ RMK# ☐
6. Does the LQUWH conduct any of the following activities:
- a. Sort batteries by type? Yes ☒ No ☐ N/A ☐ RMK# ☐
  - b. Mix battery types in one container? Yes ☒ No ☐ N/A ☐ RMK# ☐
  - c. Discharge batteries to remove the electric charge? Yes ☐ No ☐ N/A ☒ RMK# ☐
  - d. Regenerate used batteries? Yes ☐ No ☒ N/A ☐ RMK# ☐
  - e. Disassemble them into individual batteries or cells? Yes ☐ No ☒ N/A ☐ RMK# ☐
  - f. Remove batteries from consumer products? Yes ☐ No ☒ N/A ☐ RMK# ☐
  - g. Remove the electrolyte from the battery? Yes ☐ No ☒ N/A ☐ RMK# ☐

If so, are the casings of the batteries breached, not intact, or open (except to remove the electrolyte)? [3745-273-33(A)(2)]

Yes ☐ No ☒ N/A ☐ RMK# ☐

7. If the electrolyte is removed or other wastes generated, has it been determined whether the electrolyte or other wastes exhibit a characteristic of a hazardous waste? [3745-273-33(A)(3)]

Yes ☐ No ☐ N/A ☒ RMK# ☐

a. If the electrolyte or other waste is characteristic, is it managed in compliance with OAC Chapters 3745-50 through 3745-69? [3745-273-33(A)(3)]

Yes ☐ No ☐ N/A ☒ RMK# ☐

b. If the electrolyte or other waste is not hazardous, is it managed in compliance with applicable law? [3745-273-33(A)(3)(b)]

Yes ☐ No ☐ N/A ☒ RMK# ☐

8. Are the battery(ies) or container(s) of batteries located with the words "Universal Waste-Battery(ies)" or "Waste Battery(ies)" or "Used Battery(ies)"? [3745-273-34(A)]

Yes ☒ No ☐ N/A ☐ RMK# ☐

#### UNIVERSAL WASTE LAMPS

9. Does the LQUHW contain lamps in containers or packages that are structurally sound, adequate to prevent breakage, and are compatible with contents of the lamps? Are containers or packages closed and do they lack evidence of leakage, spillage or damage that could cause leakage? [3745-273-33(D)(1)]

Yes ☐ No ☒ N/A ☐ RMK# ☐

*plastic bags.*

10. Are lamps that show evidence of breakage, leakage or damage that could cause a release of mercury or hazardous constituents into the environment immediately cleaned up? Are they placed into a container that is closed, structurally sound, compatible with the contents of the lamps and lack evidence of leakage, spillage or damage that could cause leakage or releases of mercury or hazardous constituents to the environment? [3745-273-33(D)(2)]

Yes ☒ No ☐ N/A ☐ RMK# ☐

11. Are the lamps or containers or packages of lamps labeled with the words "Universal Waste - Lamp(s)" or "Waste Lamp(s)" or "Used Lamps?" [3745-273-34(E)] Yes ☒ No ☐ N/A ☐ RMK# ☐

**Note: Treatment (such as crushing) by a UWH is prohibited under this rule unless the facility is permitted for such activities [3745-273-31(B)].** A generator crushing lamps must manage lamps according to hazardous waste rules (OAC Chapter 3745-52). Lamp crushing is a form of generator treatment (OAC 3745-52-34). Crushed lamps must be transported by a registered hazardous waste transporter to a permitted hazardous waste facility under a hazardous waste manifest.

12. **ACCUMULATION TIME**

Is the waste accumulated for less than one year? [3745-273-35(A)]

Yes ☒ No ☐ N/A ☐ RMK# ☐

- a. If not, is the waste accumulated over one year in order to facilitate proper recovery, treatment or disposal? (Burden of proof is on handler to demonstrate) [3745-273-35(B)]

Yes ☐ No ☐ N/A ☒ RMK# ☐

**NOTE: Accumulation is defined as date generated or date received from another handler.**

13. Has the length of time the universal waste has been accumulated documented by one of the following: [3745-273-35(C)]

Yes ☒ No ☐ N/A ☐ RMK# ☐

- a. Marking or labeling the container with the earliest date when the universal waste became a waste or was received? [3745-273-35(C)(1)]

Yes ☒ No ☐ N/A ☐ RMK# ☐

- b. Marking or labeling the individual item of universal waste with the date that it became a waste or was received? [3745-273-35(C)(2)]

Yes ☒ No ☐ N/A ☐ RMK# ☐

- c. Maintaining an inventory system on-site that identifies the date the universal waste became a waste or was received? [3745-273-35(C)(3)]

Yes ☒ No ☐ N/A ☐ RMK# ☐

- d. Maintaining an inventory system on-site that identifies the earliest date that any universal waste in a group of universal waste items or a group of containers became a universal waste or was received? [3745-273-35(C)(4)]

Yes ☐ No ☐ N/A ☒ RMK# ☐

- e. Placing the universal waste in a specific accumulation area and identifying the earliest that any universal waste in the area became a waste or was received? [3745-273-35(C)(5)]
- f. Any other method which clearly demonstrates the length of time the universal waste has been accumulated from the date it became a waste or is received? [3745-273-35(C)(6)]

Yes \_\_\_ No \_\_\_ N/A X RMK# \_\_\_

Yes \_\_\_ No \_\_\_ N/A X RMK# \_\_\_

### EMPLOYEE TRAINING

14. Are employees thoroughly familiar with universal waste handling/emergency procedures, relative to their responsibilities? [3745-273-36]

Yes X No ☐ N/A \_\_\_ RMK# \_\_\_

### RESPONSE TO RELEASES

15. Were releases of universal waste and other residues immediately contained? [3745-273-37(A)]
16. Was the released material characterized? [3745-273-37(B)]
17. If the released material was a hazardous waste, was it managed as required in OAC 3745-50 through 3745-69? (If the waste is hazardous, the handler is considered the generator of the waste and is subject to Chapter 3745-52) [3745-273-37(C)]

Yes \_\_\_ No ☐ N/A X RMK# \_\_\_

Yes \_\_\_ No ☐ N/A X RMK# \_\_\_

Yes \_\_\_ No ☐ N/A X RMK# \_\_\_

### OFF-SITE SHIPMENTS

**NOTE:** If a LQUWH self-transport wastes, then the handler must comply with the Universal Waste transporter requirements.

18. Are universal wastes sent to either another handler, destination facility or foreign destination? [3745-273-38(A)]

Yes X No ☐ N/A \_\_\_ RMK# \_\_\_

*Advanced Environ. Recovery, Allentown, PA.*

**NOTE:** LQUWHs are prohibited to send waste to any other facility.

19. If the universal waste meets the definition of hazardous material under 49 CFR 171-180, are DOT requirements met with regard to package, labels, placards and shipping papers? [3745-273-38(C)]

Yes \_\_\_ No ☐ N/A X RMK# \_\_\_

20. Prior to shipping universal waste off-site, does the originating handler ensure that the receiver agrees to receive the shipment? [3745-273-38(D)]

Yes X No ☐ N/A \_\_\_ RMK# \_\_\_

21. If the universal waste shipped off-site is rejected by another handler or destination facility does the originating handler do one of the following: Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- a. Receive the waste back? [3745-273-38(E)(1)] Yes\_\_\_ No\_\_\_ N/A ☒ RMK#\_\_\_
- b. Agree to where shipment will be sent? [3745-273-38(E)(2)] Yes\_\_\_ No\_\_\_ N/A ☒ RMK#\_\_\_
22. If a handler rejects a partial or full load from another handler, does the receiver handler contact the originating handler and discuss one of the following: Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- a. Sending the waste back to originating handler? [3745-273-38(F)(1)] Yes\_\_\_ No\_\_\_ N/A ☒ RMK#\_\_\_
- b. Sending the shipment to a destination facility? [3745-273-38(F)(2)] Yes\_\_\_ No\_\_\_ N/A ☒ RMK#\_\_\_
23. If the handler received a shipment of hazardous waste that was not a universal waste, did the LQUWH immediately notify Ohio EPA? [3745-273-38(G)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
24. If the handler received a shipment of non-hazardous, non-universal waste, was the waste managed in accordance with applicable law? [3745-273-38(H)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

## TRACKING UNIVERSAL WASTE SHIPMENTS

25. Are universal waste received from another handler? If so: Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_
- a. Is a record of each shipment kept? [3745-273-39(A)] Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_

**NOTE:** *This record can be in the form of a log, invoice, manifest, bill of lading, or other shipping document. This also applies to question No. 35(a).*

26. Does the record include the following:
- a. Name and address of the originating handler or foreign shipper? [3745-273-39(A)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- b. Quantity of each type of universal waste? [3745-273-39(A)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- c. Date received? [3745-273-39(A)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
27. Is universal waste shipped to another handler? If so: Yes \_\_\_ No \_\_\_ N/A \_\_\_ RMK# \_\_\_
- a. Is a record of each shipment kept? [3745-273-39(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
28. Does the record include the following?
- a. Name and address of universal waste handler, destination facility, or foreign destination? [3745-273-39(B)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- b. Quantity of each type of universal waste? [3745-273-39(B)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- c. Date shipped? [3745-273-39(B)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
29. Are records kept for three years? [3745-273-39(C)(1)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

## EXPORTS

30. Is waste being sent to a foreign destination? If so: Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_
- a. Does the large quantity handler comply with primary exporter requirements in OAC rules 3745-52-53, 3745-52-56 and 3745-52-57? [3745-273-40(A)] Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_

b. Is waste exported only upon consent of the receiving country and in conformance with U.S. EPA "Acknowledgment of Consent" 3745-52-50 to -52-57? [3745-273-40(B)]

Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_

c. Is a copy of the U.S. EPA "Acknowledgment of Consent" provided to the transporter? [3745-273-40(C)]

Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_

#### REMARKS

## USED OIL INSPECTION CHECKLIST (Long Version)

### PROHIBITIONS

1. Is used oil being managed in a surface impoundment or waste pile? If so: Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_  
Is the surface impoundment or waste pile being regulated under OAC 3745-54 to 3745-57 and 3745-205 or 3745-65 to 3745-69 and 3745-256? [3745-279-12(A)] Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_
2. Is used oil being used as a dust suppressant? [3745-279-12(B)] Yes ☐ No ☒ N/A \_\_\_ RMK# \_\_\_
3. Is off-specification used oil fuel burned for energy recovery only in devices specified in 3745-279-12(C)? Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_

### USED OIL GENERATOR STANDARDS

4. Does the generator mix hazardous waste with used oil only as provided in 3745-279-10(B)? [3745-279-21(A)] Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_
5. Does the generator of a used oil containing greater than 1,000 ppm total halogens manage the used oil as a hazardous waste unless the presumption is rebutted successfully? [3745-279-21(B)] Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_
6. Does the generator only store used oil in tanks, containers, or units subject to OAC 3745-54 to 3745-57 and 3745-205 or 3745-65 to 3745-69 and 3745-256? [3745-279-22(A)] Yes ☒ No ☐ N/A \_\_\_ RMK# \_\_\_
7. Are containers and aboveground tanks used to store used oil in good condition with no visible leaks? [3745-279-22(B)] Yes ☒ No ☐ N/A \_\_\_ RMK# \_\_\_
8. Are containers, above ground tanks, and fill pipes used for underground tanks clearly labeled or marked "Used Oil"? [3745-279-22(C)] Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_  
*55 Gal drum - 814 x - 750*
9. Has the generator, upon detection of a release of used oil, done the following: [3745-279-22(D)]
- a. Stopped the release? Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_
- b. Contained the release? Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_
- c. Cleaned up and properly managed the used oil and other materials? Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_
- d. Repaired or replaced the containers or tanks prior to returning them to service, if necessary? Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_
10. Does the generator burn used oil in used-oil fired space heaters? [3745-279-23] If so: Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_



## USED OIL TRANSPORTER AND TRANSFER FACILITIES

16. Does the used oil transporter process used oil? [3745-279-41(A)] If so: Yes \_\_\_ No \_\_\_ N/A \_\_\_ RMK# \_\_\_  
Is the used oil transporter in compliance with the requirements for processors/re-refiners in 3745-279-50 to 3745-279-59 (except as provided in 3745-279-41(B) and (C))? [3745-279-41(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
17. Has the used oil transporter notified Ohio EPA or U.S. EPA and obtained a U.S. EPA ID#? [3745-279-42(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
18. Has the used oil transporter delivered all used oil to:
- a. Another used oil transporter that has a U.S. EPA ID#? [3745-279-43(A)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - b. A used oil processing/re-refining facility that has a U.S. EPA ID#? [3745-279-43(A)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - c. An off-spec used oil burning facility that has a U.S. EPA ID#? [3745-279-43(A)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - d. An on-spec used oil burning facility? [3745-279-43(A)(4)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
19. Has the used oil transporter complied with all applicable USDOT regulations (49 CFR 171 to 180)? [3745-279-43(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
20. Has the used oil transporter had a discharge of used oil? If so: Yes \_\_\_ No \_\_\_ N/A \_\_\_ RMK# \_\_\_  
Did they take the appropriate action as outlined in 3745-279-43(C)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
21. Has the used oil transporter determined whether the total halogen content of the used oil being transported or stored at a transfer facility is above or below 1000 ppm? [3745-279-44(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
22. Does the transporter retain all records of analyses and information used to comply with 3745-279-44 for at least three years? [3745-279-44(D)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
23. Does the owner/operator of a used oil transfer facility:
- a. Stored used oil in tanks, containers, or units subject to regulation under 3745-54 to 3745-57 and 3745-205 or 3745-65 to 3745-69 and 3745-256? [3745-279-45(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

- d. Does each record include the date of acceptance? [3745-279-46(A)(4)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- e. Does each record include the signature of a representative of the generator, transporter, processor/re-refiner that provided the used oil for transport? [3745-279-46(A)(5)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
25. Does the used oil transporter keep a record of each shipment of used oil that is delivered to another used oil transporter, burner, processor/re-refiner, or disposal facility? [3745-279-46(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- a. Does each record include the name and address of the receiving facility or transporter? [3745-279-46(B)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- b. Does each record include the U.S. EPA ID# of the receiving facility or transporter? [3745-279-46(B)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- c. Does each record include the quantity of used oil delivered? [3745-279-46(B)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- d. Does each record include the date delivered? [3745-279-46] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- e. Does each record include the signature of a representative of the receiving facility or transporter (intermediate rail transporters are not required to sign a record of delivery)? [3745-279-46(B)(5)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
26. Does the used oil transporter who exports used oil to a foreign country comply with 3745-279-46(B)(1) to (B)(4)? [3745-279-46(C)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
27. Does the used oil transporter retain all records required under 3745-279-46 for at least three years? [3745-279-46(D)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
28. Does the used oil transporter generate residues from the storage or transportation of used oil? Yes\_\_\_No\_\_\_ N/A \_\_\_ RMK#\_\_\_
- If so, are they managed as specified in 3745-279-10(E)? [3745-279-47] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_

#### REMARKS

32. Does the used oil processor/re-refiner determine whether the total halogen content of the used oil being managed at the facility is above or below 1000 ppm? [3745-279-53(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
33. Does/has the used oil processor/re-refiner:
- a. Only store used oil in tanks, containers or units subject to regulation under 3745-54 to 3745-57 and 3745-205 or 3745-65 to 3745-69 and 3745-256? [3745-279-54(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
  - b. Only store used oil in containers and aboveground tanks that are in good condition, with no visible leaks? [3745-279-54(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
  - c. Provide secondary containment for containers as required by 3745-279-54(C)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
  - d. Provide secondary containment for existing aboveground tanks as required by 3745-279-54(D)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
  - e. Provide secondary containment for new aboveground tanks as required by 3745-279-54(E)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
  - f. Label all containers, aboveground tanks and fill pipes used for underground tanks with the words "Used Oil" [3745-279-54(F)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
  - g. Upon detection of a release of used oil, done the following in accordance with 3745-279-54(G):
    - i. Stopped the release? Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
    - ii. Contained the release? Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
    - iii. Cleaned up and managed the used oil and other materials? Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
    - iv. Repaired or replaced the containers or tanks prior to returning them to service, if necessary? Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
  - h. Performed closure of aboveground tanks and containers in accordance with 3745-279-54(H)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_

- c. Does each record include the U.S. EPA ID# of the transporter that delivers the used oil to the burner, processor/re-refiner or disposal facility? [3745-279-56(B)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- d. Does each record include the U.S. EPA ID# of the burner, processor/re-refiner or disposal facility who receives the used oil? [3745-279-56(B)(4)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- e. Does each record include the quantity of used oil shipped? [3745-279-56-(B)(5)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- f. Does each record include the date of shipment? [3745-279-56(B)(6)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
37. Does the used oil processor/re-refiner retain all records required under 3745-279-56 for at least three years? [3745-279-56(C)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
38. Does the owner/operator keep an operating record at the facility? [3745-279-57(A)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- a. Does the operating record include records and results of used oil analysis performed as described in the analysis plan required under 3745-279-55? [3745-279-57(A)(2)(a)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- b. Are summary reports and details of all incidents that require implementation of the contingency plan as specified in 3745-279-52(B) maintained in the operating record? [3745-279-57(A)(2)(b)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
39. Does the used oil processor/re-refiner report to the director in the form of a letter, on a biennial basis by March 1, the following information:
- a. The U.S. EPA ID#, name and address of the processor/re-refiner? [3745-279-57(B)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- b. The calendar year covered by the report? [3745-279-57(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- c. The quantities of used oil accepted for processing/re-refining and the manner in which the used oil is processed/re-refined, including the specific processes employed? [3745-279-57(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
40. Does the used oil processor/re-refiner, who initiates a shipment of used oil off-site, use a used oil transporter that has a U.S. EPA ID#? [3745-279-58] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_

- d. Provided secondary containment for existing aboveground tanks as required by 3745-279-64(D)? Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
- e. Provided secondary containment for new aboveground tanks as required by 3745-279-64(E)? Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
- f. Labeled all containers, aboveground tanks and fill pipes used for underground tanks with the words "Used Oil?" [3745-279-64(F)] Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
- g. Upon detection of a release of used oil, done the following in accordance with 3745-279-64(G):
- i. Stopped the release? Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
  - ii. Contained the release? Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
  - iii. Cleaned up and managed the used oil and other materials? Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
  - iv. Repaired or replaced the containers or tanks prior to returning them to service, if necessary? Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
48. Does the used oil burner keep a record of each used oil shipment accepted for burning? [3745-279-65(A)] Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
- a. Does each record include the name and address of the transporter who delivers the used oil to the burner? [3745-279-65(A)(1)] Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
  - b. Does each record include the name and address of the generator or processor/re-refiner who sent the used oil to the burner? [3745-279-65(A)(2)] Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
  - c. Does each record include the U.S. EPA ID# of the transporter that delivers the used oil to the burner? [3745-279-65(A)(3)] Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
  - d. Does each record include the U.S. EPA ID# (if applicable) of the generator or processor/re-refiner who sent the used oil to the burner? [3745-279-65(A)(4)] Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
  - e. Does each record include the quantity of the used oil accepted? [3745-279-65(A)(5)] Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_
  - f. Does each record include the date of acceptance? [3745-279-65(A)(6)] Yes \_\_\_ No ☐ N/A / \_\_\_ RMK#\_\_\_

56. Does the used oil marketer keep a record of each shipment of **off-spec** used oil directed to a used oil burner? [3745-279-74(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- a. Does each record include the name and address of the transporter who delivers the used oil to the burner? [3745-279-74(A)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- b. Does each record include the name and address of the burner who receives the oil? [3745-279-74(A)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- c. Does each record include the U.S. EPA ID# of the transporter that delivers the used oil to the burner? [3745-279-74(A)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- d. Does each record include the U.S. EPA ID# of the burner? [3745-279-74(A)(4)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- e. Does each record include the quantity of the used oil shipped? [3745-279-74(A)(5)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- f. Does each record include the date of shipment? [3745-279-74(A)(6)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
57. Does the generator, transporter, processor/re-refiner, or burner who first claims that the used oil **meets the fuel specifications** under 3745-279-11 keep a record of each shipment of used oil to an on-spec used oil burner? [3745-279-74(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- a. Does each record include the name and address of the facility receiving the shipment? [3745-279-74(B)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- b. Does each record include quantity of used oil fuel delivered? [3745-279-74(B)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- c. Does each record include date of shipment or delivery? [3745-279-74(B)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- d. Does each record include a cross-reference to the record of used oil analysis or other information used to make the determination that the used oil meets the specification as required in 3745-279-72(A)? [3745-279-74(B)(4)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
58. Are the records described in 3745-279-74(A) and (B) maintained for at least three years? [3745-279-74(C)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_

**LQG TANK SYSTEM REQUIREMENTS (OAC rule 3745-52-34(A) and OAC rules 3745-66-90 through 3745-66-100)**

(Please refer to the rules before or while completing this checklist.)

1. Is each tank clearly labeled/marked with the words "Hazardous Waste" [3745-52-34(A)(3)]? Yes ☒ No ☐ N/A ☐

**TANK SYSTEM – GENERAL OPERATING REQUIREMENTS**

2. Does the o/o follow the general operating requirements below:
- a. Does the o/o prevent placement of hazardous waste or treatment reagents in tank or secondary containment if such placement can cause the system to leak, rupture, corrode, or otherwise fail?[3745-66-94(A)] Yes ☒ No ☐ N/A ☐
- b. Does the o/o use appropriate controls to prevent spills or overflows from the system (e.g., check valves, dry disconnect couplings, high level alarms, etc.)?[3745-66-94(B)] Yes ☒ No ☐ N/A ☐
- c. If a leak or spill has occurred in the tank system, has the o/o complied with 3745-66-96?[3745-66-94(C)] Yes ☐ No ☐ N/A ☒

**TANK SYSTEM – INSPECTION REQUIREMENTS**

3. Has the o/o documented the inspections required in 3745-66-95, in the operating record, including inspection of the following:
- a. Spill control equipment each operating day? [3745-66-95(A)(1)] Yes ☐ No ☒ N/A ☐
- b. Above ground portion of tank each operating day?[3745-66-95(A)(2)] Yes ☐ No ☒ N/A ☐
- c. Data from leak detection equipment each operating day?[3745-66-95(A)(3)] Yes ☐ No ☒ N/A ☐
- d. Construction materials and area immediately surrounding the tanks for signs of erosion or release of hazardous waste each operating day?[3745-66-95(A)(4)] Yes ☐ No ☒ N/A ☐

*NOTE: "Each operating day" is each day that the tank system is being used to manage (store or treat) hazardous waste.*

4. Where applicable, the cathodic protection system to confirm proper operation within six months of initial installation and annually thereafter?[3745-66-95(B)(1)] Yes ☐ No ☐ N/A ☒
5. Where applicable, all sources of impressed current at least bi-monthly?[3745-66-95(B)(2)] Yes ☐ No ☐ N/A ☒

**TANK SYSTEM CLOSURE REQUIREMENTS**

6. If the generator has closed a <90 day tank, was closure completed in accordance with OAC 3745-66-97 (except for paragraph C)? Yes ☐ No ☐ N/A ☒

**TANK SYSTEMS STORING IGNITABLE OR REACTIVE WASTES**

7. For tanks used to treat or store ignitable or reactive wastes, has the o/o complied with one of the following: [3745-66-98(A)] Yes ☐ No ☐ N/A ☒
- a. Is the waste treated immediately after placement in the tank so that the resultant mixture is no longer ignitable or reactive and the o/o has conducted such activities in compliance with 3745-66-17(B)?[3745-66-98(A)]; OR Yes ☐ No ☐ N/A ☒
- b. Is the waste stored or treated to protect it from materials or conditions which may cause ignition or reaction?[3745-66-98(A)]; OR Yes ☐ No ☐ N/A ☐
- c. The tank is used solely for emergencies?[3745-66-98(A)] Yes ☐ No ☐ N/A ☐
8. If ignitable or reactive waste is stored or treated, are protective distances maintained between waste management areas and any public streets, alleys or adjoining property lines as required by the NFPA Flammable and Combustible Liquids Code (1996)? [3745-66-98(B)] Yes ☐ No ☐ N/A ☐
9. Has the o/o placed incompatible wastes or materials into the same tank system, or into a tank system that has not been decontaminated and which previously held an incompatible waste or material?[3745-66-99(A) and/or (B)] Yes ☐ No ☐ N/A ☐
- a. If so, have the requirements of 3745-65-17(B) been met?[3745-66-99(A) and/or (B)] Yes ☐ No ☐ N/A ☐

**TANK SYSTEM – WASTE ANALYSIS REQUIREMENTS**

10. In addition to conducting the waste analysis required by 3745-65-13, when the tank system is used to store or treat a waste which is substantially different or uses a substantially different process than previously used, has the o/o done one of the following:[3745-66-100]
- a. Conducted waste analysis and trial treatment or storage tests?[3745-66-100(A)]; OR Yes ☐ No ☐ N/A ☐
- b. Obtained written documentation on similar waste under similar operating conditions to show that the proposed storage/treatment will meet the requirements of OAC 3745-66-94? [3745-66-100(B)] Yes ☐ No ☐ N/A ☐

**TANK SYSTEMS REQUIREMENTS**

11. Is there a written assessment attesting that the design, installation and structural integrity of the system is adequate for the management of hazardous waste(s)?[3745-66-92(A)] Yes ☐ No ☒ N/A ☐

*NOTE: You should review the file to see if the written assessment has been previously reviewed and what the results were.*

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12. Does the written assessment include the following:[3745-66-92(A)]

- |   |     |                          |    |                                     |     |                          |
|---|-----|--------------------------|----|-------------------------------------|-----|--------------------------|
| a. Certification by an independent registered, professional engineer?[3745-66-92(A)]  | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| b. Consideration of the design standards of the system?[3745-66-92(A)]  | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| c. Consideration of the hazardous characteristics of the waste(s)?[3745-66-92(A)]   | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| d. An evaluation by a corrosion expert (only if the external system/components are metal and in contact with soil or water)?[3745-66-92(A)]                                       | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| e. A determination of design and operational measures that will be needed to protect the tank system from potential damage (only for underground tank components)?[3745-66-92(A)] | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| f. Design considerations to ensure that the tank foundations will maintain the load of a full tank?[3745-66-92(A)]  | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| g. Design considerations for anchoring the unit to prevent floatation (only for tanks situated in a seismic fault zone or saturated zone)?[3745-66-92(A)]                         | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| h. Design considerations to ensure that the tank system will withstand the effects of frost heave(only for underground tank systems)?[3745-66-92(A)]                              | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |

NOTE: CO-DHWM Engineering staff are available to assist you with evaluation of the written assessment.

13. Are there written statements by those persons who supervised installation or certified design of the new tank system, that the tank system was properly installed and designed and that required repairs were performed?[3745-66-92(G)]

Do the written statements address all of the following:

- |  |     |                          |    |                                     |     |                          |
|--|-----|--------------------------|----|-------------------------------------|-----|--------------------------|
| a. Inspection for damage and/or inadequate construction and installation was conducted?[3745-66-92(B)]                                     | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| b. Statement that deficiencies were corrected before the tank system was covered or put into use?[3745-66-92(B)]                           | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| c. Proper backfilling?[3745-66-92(C)]  | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| d. Tightness test; if the tank system was found not to be tight, does the statement indicate that proper repairs were made?[3745-66-92(D)] | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| e. Proper support and protection of ancillary equipment?[3745-66-92(E)]  | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| f. Supervision of the installation of field fabricated corrosion protection?[3745-66-92(F)]  | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |

## SECONDARY CONTAINMENT

14. Has secondary containment been provided? Yes ☐ No ☒ N/A ☐

NOTE: All tank systems must have secondary containment at this point, except for tank systems that store/treat materials that become hazardous waste after January 12, 1987, must have secondary containment required within the time intervals in [3745-66-92(A)(1)] to (A)(4). The date the material became a hazardous waste must be used in place of January 12, 1987.[3745-66-92(A)(5)]

15. Is secondary containment one of the following:

- |  |     |                          |    |                                     |     |                          |
|--|-----|--------------------------|----|-------------------------------------|-----|--------------------------|
| a. An <b>External Liner?</b> [3745-66-93(E)(1)] If so,   | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| i. Is liner designed or operated to contain 100% of the capacity of the largest tank?  | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| ii. Is liner designed and operated to prevent run-on and infiltration <u>or</u> the collection system has <u>excess</u> capacity to contain run-on and infiltration from a 25-year, 24-hour storm? | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| iii. Is liner free of cracks and gaps?   | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| iv. Does liner completely surround the tank and cover all earth likely to be contacted by waste during a release?  | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| v. Are chemically resistant water stops in place at all points? (concrete liners only)   | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| vi. Is there a compatible interior coating or lining to prevent migration of waste into the concrete? (concrete liners only)   | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| b. <b>Vault System?</b> [3745-66-93(E)(2)] If so,  | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| i. Is vault system designed to contain 100% of the capacity in the largest tank?   | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| ii. Is liner designed and operated to prevent run-on and infiltration <u>or</u> the collection system has <u>excess</u> capacity to contain run-on and infiltration from a 25-year, 24-hour storm? | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| iii. Are chemically resistant water stops in place at all points?  | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |
| iv. Is there a compatible interior coating to prevent migration into the concrete?   | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | N/A | <input type="checkbox"/> |

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- v. For **ignitable or reactive waste**: Is the vault system provided with means to prevent (or alternatively "protect against") the formation or ignition of vapors? Yes ☐ No ☐ N/A ☒
- vi. Is vault system provided with an exterior moisture barrier? Yes ☐ No ☐ N/A ☐
- c. **Double-Walled Tank?** [3745-66-93(E)(3)] If so, Yes ☐ No ☐ N/A ☐
- i. Is double-walled tank designed as an integral structure to contain any release from the inner tank? Yes ☐ No ☐ N/A ☐
- ii. If metal, are the primary tank interior and outer shell exterior surfaces protected from corrosion? Yes ☐ No ☐ N/A ☐
- iii. Is double-walled tank provided with a continuous leak detection system able to detect a release within 24 hours or at the earliest practicable time? Yes ☐ No ☐ N/A ☐
- d. **An Equivalent Device?** As described in 3745-66-93(D)(4) which has been approved by the director? [3745-66-93(D&E)] Yes ☐ No ☐ N/A ☐

## SECONDARY CONTAINMENT DESIGN/OPERATION/INSTALLATION

16. Has each secondary containment system been designed, installed and operated to prevent any migration of wastes or liquid to the soil, groundwater, or surface water and is it capable of detecting and collecting releases and accumulated liquids?[3745-66-93(B)(1) and (2)] Yes ☐ No ☐ N/A ☐
17. Does the secondary containment system meet the following minimum requirements of [3745-66-93(C)]:
- a. Constructed or lined with compatible materials of sufficient strength to prevent failure?[3745-66-93(C)(2)] Yes ☐ No ☐ N/A ☐
- b. Placed on a foundation or base capable of providing support?[3745-66-93(C)(2)] Yes ☐ No ☐ N/A ☐
- c. Provided with a leak detection system designed/operated to detect failure to primary or secondary containment or any release of hazardous waste within 24 hours or at earliest practicable time?[3745-66-93(C)(3)] Yes ☐ No ☐ N/A ☐
- d. Sloped or designed to drain and remove liquid resulting from leaks, spills or precipitation?[3745-66-93(C)(4)] Yes ☐ No ☐ N/A ☐
- e. Any liquid which accumulates in the containment unit resulting from spills, leaks or precipitation removed within 24 hours or in a timely manner?[3745-66-93(C)(4)] Yes ☐ No ☐ N/A ☐

## ANCILLARY EQUIPMENT REQUIREMENTS

18. Is ancillary equipment provided with secondary containment (such as double-walled piping, jacketing or a trench)? Yes ☐ No ☐ N/A ☐
- If not, is the ancillary equipment one of the following: [3745-66-93(F)]
- a. Above ground piping (exclusive of flanges, joints, valves and connections) that is inspected daily? Yes ☐ No ☐ N/A ☐
- b. Welded flanges, welded joints and/or welded connections that is inspected daily? Yes ☐ No ☐ N/A ☐
- c. Sealless or magnetic coupling pumps and/or sealless valves? Yes ☐ No ☐ N/A ☐
- d. Pressurized above ground piping systems with automatic shut-off devices (e.g., excess flow check valves, flow metering shutdown and/or loss of pressure-actuated shut-off devices) that is inspected daily? Yes ☐ No ☐ N/A ☐

## TANK SYSTEMS FOUND TO BE LEAKING OR UNFIT FOR USE

19. Has there been a leak or spill from any tank system or has any tank system been found unfit for use? If so, did the o/o: Yes ☐ No ☐ N/A ☒

NOTE: If the tank is found to be unfit for use, inspector should explain why.

- a. Immediately cease flow of material into tank and investigate the cause of the release?[3745-66-96(A)] Yes ☐ No ☐ N/A ☐
- b. Remove waste from tank system to prevent further release within 24 hours of detection or earliest practicable time?[3745-66-96(B)(1)] Yes ☐ No ☐ N/A ☐
- c. Remove all material released into secondary containment system within 24 hours or as timely as possible to prevent harm to human health and the environment?[3745-66-96(B)(2)] Yes ☐ No ☐ N/A ☐
- d. For a visible release to the environment, immediately conduct a visual inspection of the release?[3745-66-96(C)] Yes ☐ No ☐ N/A ☐
- e. For a visible release to the environment, prevent further migration of the leak or spill to soils or surface waters?[3745-66-96(C)] Yes ☐ No ☐ N/A ☐
- f. For a visible release to the environment, properly dispose of any visibly contaminated soil or surface water? [3745-66-96(C)] Yes ☐ No ☐ N/A ☐
- g. Report any release to the environment to the director within 24 hours unless it was less than one pound and was cleaned up immediately? [3745-66-96(D)(1)] Yes ☐ No ☐ N/A ☐

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- h. For a release to the environment, submit a written report of the incident to the director within 30 days of the release? [3745-66-96(D)(3)] Yes ☐ No ☐ N/A ☐
- i. Remediate the spill and repair the unit prior to returning it to service? [3745-66-96(E)(2)] Yes ☐ No ☐ N/A ☐
- j. For a release from a tank system without secondary containment, did the o/o provide secondary containment meeting the requirements of 3745-66-93 for the unit prior to putting it back into service? [3745-66-96(E)(4)] Yes ☐ No ☐ N/A ☐

NOTE: The requirements noted in 20.j. do not apply if the release was from an above ground component of the tank which can be inspected visually after being put back into service.

20. In the event that the repairs to the tank system were major (e.g., replacement of liner, repair of ruptured primary or secondary containment structure), did the o/o obtain a certification from an independent, registered P.E. attesting that the repaired unit is capable of handling hazardous waste? [3745-66-96(F)] Yes ☐ No ☐ N/A ☐
21. Was a copy of the certification submitted to the director within seven days after returning the system to use? [3745-66-96(F)] Yes ☐ No ☐ N/A ☐
22. If the o/o was unable to repair and return the unit to service as described in 20.a through 20.e, was the tank system closed in accordance with 3745-66-97? [3745-66-96(E)(1)] Yes ☐ No ☐ N/A ☐
23. Does the o/o have a tank system **with a variance from secondary containment** from which a release has occurred but has not migrated beyond the zone of engineering control? Yes ☐ No ☐ N/A ☐
- If so,
- a. Has the o/o complied with 3745-66-96(A) through (F) and decontaminated soils? [3745-66-93(G)(3)] Yes ☐ No ☐ N/A ☐
- b. If soils cannot be decontaminated/removed, has the o/o complied with 3745-66-97(B)? [3745-66-93(G)(3)] Yes ☐ No ☐ N/A ☐
24. Does the o/o have a tank system **with a variance from secondary containment** from which a release occurred and has migrated from the zone of engineering control? If so,
- a. Has the o/o complied with 3745-66-96(A) through (D), prevented migration, and decontaminated soil? [3745-66-93(G)(4)] Yes ☐ No ☒ N/A ☐
- b. If soils cannot be decontaminated/removed, or if the groundwater has been contaminated, has the o/o complied with 3745-66-97(B)? [3745-66-93(G)(4)] Yes ☐ No ☐ N/A ☒

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## POLLUTION PREVENTION

**Note to the Inspector:** This checklist has been developed to help the division in gathering general information about the pollution prevention (P2) practices that the company may have initiated or attempted to initiate. The checklist is also used to:

- ◇ Facilitate P2 discussions;
- ◇ Identify barriers to P2;
- ◇ Define the P2 universe;
- ◇ Identify the need for future P2 initiatives;
- ◇ Identify partnership opportunities; and
- ◇ Link companies with better P2 resources.

As a prelude to completing this checklist the inspector should use the following list of questions as a way to initiate a dialogue concerning P2:

1. Have you tried to reduce the volume of waste (hazardous and nonhazardous) that you generate?
2. What is the largest waste stream that you generate?
3. How important would it be to you to eliminate that waste stream?
4. Does your company understand the reduced regulatory burden and cost saving benefits that eliminating or reducing a waste stream can have?
5. Could you use better housekeeping practices to reduce the amount of waste that you generate?

If the company responds with one of the answers below, the appropriate box should be checked. If the company's response does not correspond to one of the options below, please record the answer in the space provided in the remarks section.

1. Has the company undertaken any P2 activities to reduce the amount of waste generated? ☒ Yes \_\_\_ No \_\_\_ N/A \_\_\_ RMK#
  - a. If so, what has the company done to minimize waste generation?
    - ☒ A change in the process resulting in less waste.
    - ☐ A change in the product resulting in less waste.
    - ☐ Use of fewer and less toxic hazardous raw materials.
    - ☐ Better operations/improved housekeeping.
    - ☐ On-site recycling/reuse of hazardous materials.
    - ☐ Sending waste off-site for recycling/reuse.
    - ☐ Other activities (specify):

b. **If so**, what wastes have been addressed?

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Solvents   | <input type="checkbox"/> Waste water  |
| <input type="checkbox"/> Paint related wastes  | <input type="checkbox"/> Solid waste (paper, plastic, metal, wood, blasting material) |
| <input checked="" type="checkbox"/> Industrial process wastes (sludges, slags, contaminated wastes waters, etc.) | <input type="checkbox"/> Air emissions  |
| <input type="checkbox"/> Contaminated oils/hydraulic fluids  | <input type="checkbox"/> Energy use   |
| <input type="checkbox"/> Off-spec chemicals  | <input type="checkbox"/> Fluorescent light bulbs                                      |
| <input type="checkbox"/> Shop rags   | <input type="checkbox"/> Used batteries   |
| <input type="checkbox"/> Other (specify):  |   |

c. If they haven't minimized waste are there barriers that are preventing them from doing it?

- ☐ Lack of information about practical alternatives.  
☐ Lack of capital to make process changes.  
☐ Lack of internal management support.  
☐ The company does not generate enough waste to consider P2.  
☐ Other reason given (specify):

2. Does the company plan to do P2 activities in the future? ☒ Yes \_\_\_ No \_\_\_ N/A \_\_\_ RMK#

3. Would the company be interested in receiving additional information from Ohio EPA about P2? \_\_\_ Yes \_\_\_ No \_\_\_ N/A ☒ RMK#

4. Did you give the company information about P2 during the inspection? \_\_\_ Yes \_\_\_ No ☒ N/A \_\_\_ RMK#

5. Would the company like a P2 assessment? \_\_\_ Yes \_\_\_ No \_\_\_ N/A ☒ RMK#

A. If yes, provide information that makes the company a good candidate for an assessment (i.e., known specific P2 opportunities exist, the company is willing to cooperate and commit resources to the assessment, the company fully understands DHWM's P2 assessment process, etc.)

B. If no, list the reasons the facility representative gave for not wanting an assessment.

***If the company would like a P2 assessment done at their facility, the inspector must give the company representative a copy of the Pollution Prevention Assessments for Hazardous Waste Generators document and discuss it with them (Attachment III of the P2 Assessment Procedures Manual at: <http://www.epa.state.oh.us/dhwm/pdf/P2AssesmentHWGeneraotrs.pdf> ).***

REMARKS





Photograph #1 – Steam Plant Waste Area.



Photograph #2 – Steam Plant Waste Area.



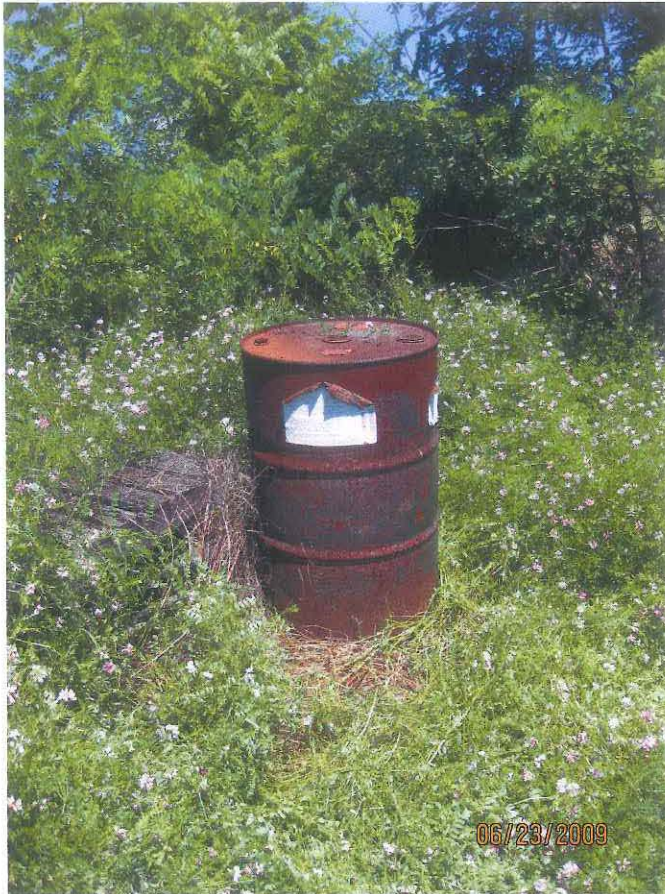


Photograph #3 – Steam Plant Waste Area.



Photograph #4 – Steam Plant, 55- Gallon plastic container.





Photograph #5 – Steam Plant, Rusty 55-Gallon Container.



Photograph #6 – Steam Plant, Rusty 55- Gallon Container.



US Enrichment Corporation Portsmouth  
Gaseous Diffusion Plant  
Piketon, Ohio  
6/23/2009



**Photograph #7 – Steam Plant – Rusty 55-Gallon Container.**



RECEIVED  
DIVISION OFFICE  
JUN 14 2010  
LAND & CHEMICALS DIVISION  
U.S. EPA - REGION 5

June 17, 2010

Mr. Walt Francis  
U.S. Environmental Protection Agency  
Region 5  
77 West Jackson Boulevard, LR-8J  
Chicago, Illinois 60604

**CERTIFIED MAIL**  
**7009 2820 0003 8818 6747**

Dear Mr. Francis:

**Notice of Violation RCRA Compliance Inspection United States Enrichment Corporation – OHD  
987 054 723**

This letter is in response to the U.S. Environmental Protection Agency's (USEPA) issuance of Resource Conservation and Recovery Act (RCRA) Compliance Inspection Report Notice of Violation (NOV), dated May 7, 2010, which the United States Enrichment Corporation (USEC) received May 24, 2010. The NOV states that during the June 22-23, 2009 USEPA inspection of USEC's compliance with the RCRA, USEC was in violation of certain provisions of the regulations under the Ohio Administrative Code and the United States Code of Federal Regulations.

1. During the June 2009 inspection of the area around the X-600 Steam Plant, the inspectors observed that various materials had been discarded. It was determined that USEC had not made the appropriate waste determination on these discarded materials and was in violation of OAC Rule 3745-52-11 (40 CFR 262.11).

In response, USEC filed Problem Reports (PR-PTS-09-01377, PR-PTS-09-01379) and began immediate corrective actions at the X-600 Steam Plant. Aerosol cans and 5-gallon chemical product buckets were properly containerized and placed into appropriate storage. Aerosol cans and hazardous chemicals were shipped July 30, 2009 for disposal documented on DOT Manifest 000487299FLE. Other items were characterized as sanitary trash and disposed through the routine sanitary trash vendor.

Copies of photographs taken at the X-600 Facility are included for your review. The photographs were taken July 9, 2009 to document the clean up of the site. In addition, copies of Problem Reports, Operations Lessons Learned Bulletin and DOT Manifest 000487299FLE are attached.

2. During the June 22, 2009 inspection, it was discovered that USEC was in violation of OAC Rules 3745-66-90 to 3745-66-101, daily inspections of hazardous waste tanks (X-700 Cleaning facility). During the inspection of the X-700 Cleaning Facility, USEC personnel told the inspectors that the daily inspection logs had been maintained until March 4, 2009.

United States Enrichment Corporation  
Portsmouth Gaseous Diffusion Plant, P.O. Box 628, Piketon, OH 45661  
Telephone 740-897-2331 Fax 740-897-2909 [www.usec.com](http://www.usec.com)

In response, USEC immediately filed Problem Report PR-PTS-09-01373 and resumed daily hazardous waste inspections of X-700 Tanks 1, 2, 3 and 4. The Daily Operating Instructions (DOI) for X-700 Chemical Operations was revised to ensure hazardous waste tanks 1, 2, 3 and 4 were inspected daily. A Lessons Learned Bulletin was distributed to all Chemical Operators emphasizing the requirement to complete and document a daily inspection of hazardous waste tanks 1, 2, 3 and 4. The Lessons Learned Bulletin was issued August 3, 2009 and copies of the DOI, Lessons Learned Bulletin and two-weeks of daily inspection sheets are attached for your review.

3. During the June 2009 inspection of Buildings X-700 and X-326, the inspectors observed several plastic bags containing used fluorescent lamps. It was determined that the plastic bags were not structurally sound to prevent breakage of the used fluorescent lamps. USEC was in violation of OAC rule 3745-273-33(D)(1) (40CFR 273.33) (d)(1).

In response, USEC immediately collected the used fluorescent lamps and properly containerized them in rigid, structurally sound containers in Universal Waste Lamp Storage areas.

Subsequently, USEC Waste Management issued a WM Bulletin #09-001 to all waste generators on the proper management of Universal Waste Lamps. The "Handling of Universal Waste Lamps" Bulletin was published in the USEC Open Line, a daily communication tool.

Copies of the Waste Management Bulletin #09-001, USEC Open Line article, Bill of Lading (BOL) X-13630-4 documenting fluorescent lamp shipment, and photo of the rigid storage containers are attached for your review.

4. During the June 2009, the inspectors observed several vehicles; e.g., two golf carts at the X-750 Garage with lead acid batteries in place even though the vehicles appeared to be out of service. USEC was in violation of OAC Rule 3745-58-70, Management of Spent lead acid batteries.

In response, X-750 personnel had left the batteries in place since it had not been determined if the equipment had reached their end-of-life. Equipment repairs were still expected to be made to these pieces of equipment. However, USEC made the determination to remove the equipment (two golf carts and pumper) from service. The batteries were immediately removed from all three units. The batteries were properly labeled, stored and prepared for recycling.

Copies of the memo from the X-750 Garage personnel and BOL for battery disposal are attached for your review.

Environmental Compliance is of the utmost importance to USEC and we will continue to work diligently to comply with the rules and regulations of the USEPA, OEPA and all other agencies that regulate our plant and operations.

Mr. Walt Francis  
June 17, 2010  
Page 3

Please contact Jeff Kemp of my staff at (740) 897-2260 if you have questions or concerns.

Sincerely,

A handwritten signature in cursive script that reads "Barbara Halcomb".

Barbara Halcomb, Manager  
Environmental Compliance & Waste Management

BEH:mlw

Attachments

cc/att: Melody Stewart, Ohio EPA, SEDO

cc: Jim Anzelmo  
Toni Brooks  
Mark Conkel  
Mark Keef  
Pam Potter  
Steve Toelle, USEC-HQ  
Records Management – RC  
File – POEF-360-10-061

## ATTACHMENT 1

### Problem Reports

PR-PTS-09-01377 – Unlabeled Bucket Discovered on Spill  
Pallet

PR-PTS-09-01379 – 5-Gallon Plastic Container Found  
Leaking



## Issue Datasheet

X09I01413 (PR-PTS-09-01377): UNLABELED BUCKET  
DISCOVERED ON SPILL PALLET

Welcome, Barbara Halcomb

Issue Data	Related Data	Problem Report	Actions	Attachments (1)	Root Cause
Parent Assessment		Status		Response Due	
X09A00001: 2009 PROBLEM REPORTS		CLSD: Closed		08/06/2009	
Issue		Type		Responsible Person	
X09I01413: UNLABELED BUCKET DISCOVERED ON SPILL PALLET		PR: Problem Report		Armstrong, Richard L	
Assigned To Group		Sub-Type		Issue Owner	
X50-782: Infrastructure & Utilities - Utility Operations		_: [Unassigned]		Brooks, Toni A	
Issue Flags:	CAQ	Regulatory	As-Found	Safety Suggestion	Human Error
					OERP
					Audit Finding
Description					
During a USEPA Inspection an un-labeled bucket was discovered on a spill pallet outside the X-600 facility. In addition the spill pallet was full of water that appeared to be overflowing.					
Management Response					
08/03/2009: Bucket contained water. The water in the bucket and spill pallet were properly disposed per Chemical Operations/Waste management.					
This response was NOT discussed with the initiator					
[Response by Bussa, Richard D]					
Remarks					
Procedure step 6.12.2					
Created by Eting, Sandra L on 6/23/2009 12:00:00 AM Last modified by Eting, Sandra L on 8/24/2009 4:08:58 PM					

## Issue Datasheet

X09I01415 (PR-PTS-09-01379): 5 GALLON PLASTIC CONTAINER  
FOUND LEAKING

Welcome, Barbara Halcomb

Issue Data	Related Data	Problem Report	Actions	Attachments (1)	Root Cause								
Parent Assessment		Status		Response Due									
X09A00001: 2009 PROBLEM REPORTS		CLSD: Closed		08/06/2009									
Issue		Type		Responsible Person									
X09I01415: 5 GALLON PLASTIC CONTAINER FOUND LEAKING		PR: Problem Report		Armstrong, Richard L									
Assigned To Group		Sub-Type		Issue Owner									
X50-782: Infrastructure & Utilities - Utility Operations		___: [Unassigned]		Brooks, Toni A									
<table border="1"> <tr> <td>Issue Flags:</td> <td>CAQ</td> <td>Regulatory</td> <td>As-Found</td> <td>Safety Suggestion</td> <td>Human Error</td> <td>OERP</td> <td>Audit Finding</td> </tr> </table>						Issue Flags:	CAQ	Regulatory	As-Found	Safety Suggestion	Human Error	OERP	Audit Finding
Issue Flags:	CAQ	Regulatory	As-Found	Safety Suggestion	Human Error	OERP	Audit Finding						
Description													
<p>During a USEPA inspection a large scrap pile was discovered near the X-621. A 5 gallon plastic container was found to be leaking an unknown substance. The pile contains metal, chemical product buckets, aerosol cans and personal items.</p>													
Management Response													
<p>08/03/2009: Leaking container of paint was properly disposed. The trash pile was surveyed and removed to sanitary landfill.</p> <p>This response was discussed with the initiator</p> <p>[Response by Bussa, Richard D]</p>													
Remarks													
<p>Procedure step 6.53</p>													
<p>Created by Etling, Sandra L on 6/23/2009 12:00:00 AM Last modified by Etling, Sandra L on 8/24/2009 4:09:21 PM</p>													





07/09/2009

1-621





x-621

## Power & Utilities Operations Lessons Learned Bulletin

Page 1 of 2

PWR-UTILOPS-LLB-09-008

DATE: August 3, 2009

### APPLICABILITY

Power & Utilities Operations

Prepared By: Richard Armstrong



Title: Attention-To-Detail: Operational Changes, Waste Generation, and Posted areas

#### Event Description:

- PR-PTS-09-01355 was issued on June 19, 2009 documenting the inadvertent tripping of X-530 switchyard oil circuit breakers, OCB 255 and OCB 258. The breakers tripped when Power Operations stopped testing due to administrative errors on the testing sheet and started restoring equipment to normal configurations. The restoration sequencing was out of order and fuses that should have been installed after the relays were reset were not. The tripped relays opened the associated breakers. This problem report was classified as a human performance error.
- PR-PTS-09-01358 was issued on June 20, 2009 documenting that a Utility Operator had inadvertently keyed his radio inside the X-6619 sewage plant and set off the sulfur dioxide detector. The detector is sensitive to radio frequencies and signs are posted in the area to not key radios. Hand held radios can be easily keyed during operator rounds as identified above. This problem report was classified as a human performance error.
- PR-PTS-09-01377 was issued on June 23, 2009 documenting that during a United States Environmental Protection Agency (USEPA) Inspection at the X-600 steam plant, an unlabeled bucket had been identified on a spill pallet. The spill pallet was also full of water that appeared to have overflowed due to rainfall. The bucket was immediately labeled and the water removed from the pallet. This problem report was classified as a human performance error and procedure violation against XP2-EW-WM1032, "Waste Generation."
- PR-PTS-09-01379 was issued on June 23, 2009 documenting that during a USEPA Inspection at the X-621 coal pile runoff facility a large scrap pile had a five gallon plastic container to be leaking an unknown substance. The scrap pile also contained metal, chemical product buckets, aerosol cans and personal items. The items above were immediately addressed after discovery. This problem report was classified as a human performance error and procedure violation against XP2-EW-WM1032, "Waste Generation".

#### Lessons Learned Summary:

The Human Performance Error Reduction tools would have provided additional oversight in the human performance errors and procedure violations listed above. The STAR (stop, think, act and review) principles would have given a self-checking attitude to maintain positive control of the testing evolution of breakers and the improper segregation of generated waste. Training and procedures provide a solid, technical foundation for operating breakers and the disposal of wastes however daily operating work loads, changes to expected results, and/or complacency in everyday operations led to human performance errors.

Operations personnel performing tests identified administrative errors on the testing sheets and stopped the job. This is a great response however during equipment restoration steps were missed and caused breakers to open unexpectedly. A good technical knowledge was present but the changes to the job scope and expected results did not stop or think through the restoration evolution to ensure the restoration could be properly performed.

**Power & Utilities Operations Lessons Learned Bulletin**

Page 2 of 2

**PWR-UTIOPS-LLB-09-008**

**DATE: August 3, 2009**

**APPLICABILITY**

**Power & Utilities Operations**

Carrying a hand held radio is easily keyed. The operator could have left the radio outside the sensitive, posted area to prevent inadvertent keying caused by carrying the radio.

Normal operations produce general wastes that must be managed. Used containers and scrap metal are challenges for disposing of properly, but must be foremost in our operations. Training and procedures provide the technical basis however continual oversight is required to manage wastes properly, especially after maintenance evolutions.

XP2-EW-WM1032, "Waste Generation" provides the technical basis to handle waste properly. The unlabeled waste in the scrap piles was in the process of being segregated and disposed of however segregation should have been first in the process. At a minimum, all waste containers shall be marked, labeled, or tagged as to their contents and different wastes segregated. The labels and marked container information should be clear and legible. Aerosol cans cannot be disposed of in sanitary trash as was identified in this inspection. Spill pallets must be emptied when used to possibly contain a spill of the container placed upon it.

**Distribution:**

Power FLM and Power Operators Read File

Utilities FLMs/Staff, Utilities Operators, D&I Operators, Steam Plant Read Files

Chemical, Utilities and Power (CUP) Office



<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number W000000000000	2. Page 1 of 1	3. Emergency Response Phone 781-357-3000	4. Manifest Tracking Number <b>000487299 FLE</b>
5. Generator's Name and Mailing Address Waste Reduction and Recycling Center 1000 Orange Street Boston, MA 02114			Generator's Site Address (if different than mailing address) Waste Reduction and Recycling Center 1000 Orange Street Boston, MA 02114		
Generator's Phone: (781) 357-3000					
6. Transporter 1 Company Name Waste Reduction and Recycling Center			U.S. EPA ID Number C000000000000		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Waste Reduction and Recycling Center 1000 Orange Street Boston, MA 02114			U.S. EPA ID Number C000000000000		
Facility's Phone: 781-357-3000					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity
			No.	Type	12. Unit WL/Vol.
	1	1. HAZARDOUS Waste (Aqueous acid, spent) H PCB	1	DM	11
	2	2. HAZARDOUS Waste (Acetone) 2.1	1	DM	125
	3	3. HAZARDOUS Waste (Acetone) 2.1	1	DM	125
4	4. HAZARDOUS Waste (Acetone) 2.1	1	DM	125	
13. Waste Codes					
14. Special Handling Instructions and Additional Information Waste Reduction and Recycling Center 1000 Orange Street Boston, MA 02114 EPA # 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offor's Printed/Typed Name Waste Reduction and Recycling Center			Signature Waste Reduction and Recycling Center		Month Day Year 07 30 09
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Waste Reduction and Recycling Center			Signature Waste Reduction and Recycling Center		Month Day Year 07 30 09
Transporter 2 Printed/Typed Name			Signature		Month Day Year
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator) CERTIFIED TO BE AN ACCURATE RECORD Manifest Reference Number: U.S. EPA ID Number					
Facility's Phone: 781-357-3000					
18c. Signature of Alternate Facility (or Generator) SIGNATURE DATE Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1.		2.		3.	
4.		5.		6.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name Waste Reduction and Recycling Center			Signature Waste Reduction and Recycling Center		Month Day Year 07 30 09

**IMPACT Services Inc.**

103 Palladium Way  
Oak Ridge, TN 37830

**Bill To**

United States Enrichment Corp  
ATTN: Accounts Payable Dept.  
P.O. Box 628 Ms-6006  
Piketon, OH 45661

Date	Invoice #
10/29/2009	952

*Draft  
Invoice*

Approved By	Terms	Project
SKP	Net 30	902083

Service	Description	Qty	Rate	Amount
	Processing and disposal of empty drums received 10/23/09, Manifest Number 09R-ETTP-223 Container Numbers CTXU507553 and ZIMU106494			
Services	Disposition of 188 drums	188	45.00	8,460.00
Services	Transportation to deliver empty sealand containers	1	1,120.00	1,120.00
Services	Transportation to deliver full containers to Oak Ridge, TN	1	1,120.00	1,120.00
	Reference Contract/Purchase Order No. 770865, Rev 2 Buyer: D. Kelscy			

Thank You

**Total**

\$10,700.00

Please remit payment to:  
IMPACT Services Inc.  
103 Palladium Way  
Oak Ridge, TN 37830  
Phone: 865-576-8708

If this invoice becomes delinquent, a 1 1/2% per month service charge (18% annual percentage rate) or the highest legal rate will be billed. Collection costs including interest and attorney fees will be included in the final settlement.

## ATTACHMENT 2

### Problem Report

PR-PTS-09-01373 – Daily Hazardous Waste Tank  
Inspection Discontinued

### Attendance Sheet

X-700 Daily Tank Inspections – Crew Brief – DOI

### Lessons Learned Bulletin – Chemical Operations

PORTS-CHEM OPE-LLB-09-010 – “Daily Hazardous  
Waste Tank Inspection Documentation Discontinued:

### Daily Operating Instructions

DOI-07-31-09 – “USEC 50-771/772/773 CHEMICAL  
OPERATIONS

### Inspections

X-700 Daily Tank Inspections

PR-PTS-09-01379 – 5-Gallon Plastic Container Found  
Leaking

## Issue Datasheet

X09I01409 (PR-PTS-09-01373): DAILY HAZARDOUS WASTE TANK  
INSPECTION DISCONTINUED

Welcome, Barbara Halcomb

Issue Data    Related Data    Problem Report    Actions    Attachments (1)    Root Cause

## PART A - Initiator's Information

Discovered By	Phone Number	Shift	Identified By	Discovery Date and Time (Military)
Halcomb, Barbara E	740/897-2328	O		06/23/2009 16:00
Discovered By Group				Location
X40-360: Technical Services - Waste Management				X-700
Describe the Issue - <i>WHO (but not by name), WHAT, WHEN and WHERE</i>				
During the USEPA inspection, it was discovered that on 3/11/09 the X-700 daily hazardous waste tank inspections of Tanks 1,2,3 and 4 were discontinued.				
Activity In Progress				
USEPA Inspection				

## PART B - PSS/APSS

PSS Review By	Phone Number	Review Date and Time
McCleery, James G	740/897-3025	06/23/2009 17:23
Actions Taken		
INITIATOR: Chemical Operations resumed daily hazardous waste tank inspection with written documentation on the X-700 Daily Tank Inspection Checklist.		
PSS: [PSS/APSS made no entry]		
Potential Impact or Risk until Issue is corrected		
INITIATOR: Regulatory non-compliance with potential penalties.		
PSS: [PSS/APSS made no entry]		
Recommended Actions		
INITIATOR: [Initiator made no entry]		
PSS: [PSS/APSS made no entry]		
<input type="checkbox"/> Industrial Safety Concern		
Equipment	Equipment Name	Stores Number
<input type="checkbox"/> Equipment Failure	Tag Number/Type	Tag Location
<input type="checkbox"/> Tags Placed		
Procedure, Drawing or ESO Number	In-Hand Procedure	Requirement Violated (if known)
	N/A	
Is the SSC operable?	TSR Number	
N/A		
Is the condition reportable?	Report Number	

No

Is the Equipment/Component/Activity one of the following or is there a regulatory impact? (Check all that apply)

☐ Q ☐ AQ ☐ NCS ☐ AQ-NCS ☐ TSR ☒ SAR ☐ Non-Safety ☐ N/A

Justification/Comments/Actions

Initiator has ownership of issue.

Tanks check resumed

Management needs to assess for procedural compliance.

From Initiator no immediate issues

**PART C - Shift/System Engineer**

Shift Engineer Review By

Phone Number

Review Date and Time

Penn, Robert G

740/897-3503

06/23/2009 18:01

Is this an As-Found/potential As-Found condition?

Shift/System Engineer Comments

[Shift Engineer made no entry]

Failure Timing

Additional Observations

Created by Etling, Sandra L. on 6/23/2009 12:00:00 AM  
Last modified by Etling, Sandra L. on 8/24/2009 4:07:55 PM



[illegible]

**CHEMICAL OPERATIONS  
LESSONS LEARNED BULLETIN**

**PORTS-CHEM OPS-LLB-09-010**  
**DATE: 08/3/2009**

**APPLICABILITY:**  
**All Chemical Operations**

**Prepared By:** Mabel Tanner

**Title:** Daily Hazardous Waste Tank Inspection Documentation Discontinued

**Reference Document(s):**

PR-PTS-09-01373	Daily Hazardous Waste Tank Inspection Discontinued
UE2-OP-OP1030, Rev 1	Conduct of Operations

**Description of Condition:**

On June 23, 2009 during a USEPA inspection it was discovered that on 3/11/09 the X-700 daily hazardous waste tank inspection sheets of Tanks 1, 2, 3 and 4 had been discontinued. The failure to continue the documentation of the tank inspections resulted in PR-PTS-09-01373 and in a Human Performance Error and a Procedure Violation.

**Action to Prevent Recurrence:**

This bulletin is intended to raise awareness of the necessity to continue work as instructed by management and the responsibility of each employee to maintain procedural compliance. The disregard for continuing assignments until direction is received otherwise will not be tolerated. It is imperative that management provide clear, crisp and concise instructions as well as rigorous oversight.

**Lessons Learned Summary:**

Clear and complete communication between management and employees is vital. Failure to clearly document and communicate the tank condition status between employees and management could have lead to consequential assumptions. The environmental safety of the plant could have seriously been compromised due to the failure to report and document these tank conditions. Prompt and accurate reporting is essential for timely and adequate responses.

It is necessary for all employees to continue to complete forms and reports as directed until proper documentation and direction is provided by management to discontinue these activities.

August 3, 2009

**Action to Prevent Recurrence:**

As a result of this problem report, Chemical Operations Management has issued guidance in the Daily Operating Instructions (DOI) for Chemical Operators to continue Daily Tank Inspections and documentation.

If you have any questions please contact management. It will only take a phone call. Take the time and make the effort to do activities correctly and by procedure.

**Shared with Other Organization (list organization and person):**

Dick Armstrong – Power and Utilities  
Don Davidson – X-340 Operations



## DAILY OPERATING INSTRUCTIONS

DOI Number: DOI-07-31-09

Date: 07-31-09

- 1.0 **SUBJECT:** USEC 50-771/772/773 CHEMICAL OPERATIONS
- 2.0 **PURPOSE:** To provide additional instructions for the operation of the X-705/700 building and associated decontamination efforts of department 50-771/772/773.
- 3.0 **SCOPE AND APPLICABILITY:** USEC 50-771/772 Chemical Operations and 50-773 Laundry personnel.
- 4.0 **DIRECTION/INSTRUCTION/INFORMATION:**

4.1 All Required Reads, Turnover and DOI's are located in the same notebook.

- A. Review, shift turnover and long-term orders.
- B. **IMMEDIATE READS** are to be read and signed before assuming shift duties. *Radios are available in the FLM office for any Operator working by themselves.* Carrying a radio would allow for contact with the PSS or the Utilities FLM in the event that someone working by themselves was injured or unable to get to a phone. While this is not mandated, it is recommended.
- C. Due to the fact that the entire X705 roof area is a posted contamination area, Health Physics must assess roof leaks within areas, which are not in posted contamination or high contamination areas, upon discovery. Upon discovering a roof leak in one of these areas, contact HP to have a contamination survey/assessment performed and take actions as necessary.
- D. Status of accountable containers will be monitored and checked to ensure all applicable DYMCAS transactions have been completed by the building MBA/FLM a result of a failure to complete DYMCAS dump packages on several poly bottles. The FLM changing the status of a container(s) will contact the building MBA/FLM to ensure all required DYMCAS actions have been completed within 48 hours of status change.
- E. **Beryllium.** See Appendix.
- F. **All polybottles must be transported in an upright position between facilities. (07-27-06).**
- G. **Operations and activities around the X-705 Nitric Acid Storage Tank require the use of a portable eyewash station. (PR-PTS-06-062264)**
- H. As a result of PR-PTS-09-01366 procedure XP2-EW-WM2860 contains Form A-5391 which must be dated when used.
- I. As a result of PR-PTS-09-01507 Small Diameter Container Holders not secured properly to prevent movement. Operations have determined that each holder will be inspected for movement that could cause a spacing issue prior to use. If holder is in question FLM will remove it from service until repairs are made.

vacuum truck & taken to 627 for processing. Once a tanker or vacuum truck is en-route to the 627, contact that facility to make notification of the arrival [Latta has requested the operator be contact cell phone (740-352-2439), or pager 290-1744 (enter 700 to indicate tanker changed), the radio on channel 2 or the PSS]. Tanker was changed out 07/30/09

- F. Prior to performing any sandblasting, CAAS coverage will need to be established for the blast area during blasting operations and a special pre-job brief held concerning the IH-HP required monitoring due to the low levels of beryllium found within the "Black Beauty" blasting agent.
- G. Operations and activities around the X-705 Nitric Acid Storage Tank require the use of a portable eyewash station. (PR-PTS-06-062264)
- H. Personnel Evacuation pushbuttons at columns F12 (BioD) and 7BA7 (exterior of the Furnace Stand) were placed OOS on 2-21-05. WR#'s 0501159 & 0501160.
- I. PR-PTS-05-02128: Inadequate ventilation for the operation of tanks #2, #3, & #5. Tanks can not be utilized until ventilation is increased by fan repairs & a new velocity test.
- J. Insufficient number of ventilations units in service on the X-700 Chemical Cleaning Side to allow access to the areas under the cleaning tanks in the North Basement. No Entry is allowed until sufficient number of ventilation units are returned to service. The sump pit areas can be accessed.
- K. Do not add any liquids or acids to all tanks within the X-700 facility until further notice from Facility Custodian.
- \* L. EPA findings from Nov 8 indicate that the contents of the X700 Chemical tanks #1, 2, 3 & 4 meet the criteria for Hazardous Waste. Until these tanks can be completely emptied and closed out, a daily inspection of each tank shall be performed in accordance with and documented on the X700 Daily Tank Inspections form. The completion of this inspection shall also be noted in the area logbooks.

#### 4.6 X-700 Bio-D

- A. Urinalysis Slips:
- B. If the tanker level reaches 38 inches or the level rate of rise is such that a tanker change is imminent, verbally contact Management or the PSS.
- C. As a result of the recurrence of bird droppings in the X-700, continued active work area clean up will continue on a weekly basis as a minimum and increase as required to maintain the area. IH guidance is still the same as in the past. With pre-wetting of the droppings or non crusty dry droppings, no respirator PPE is required. If in question as to the condition, pre-wet the droppings.
- D. As a result of a Safety Group walk down of the X-700 tanker sump water process, Safety has requested that extreme caution must be taken if access to the tanker platform is required (i.e. changing the tanker or performing tanker level checks). Safety has requested that the tanker be level checked from the ladder if possible.
- E. During operation of the New Plant, maintain the feed rate between 100-1000 ml/min and maintain the sump discharge around 100 ppm nitrates.
- F. Ensure that the Radio and battery are in proper working order to

# X-700 Daily Tank Inspections

Date: 7-31-09

Name & Badge #: STOWARD 57303

Manager Name & Badge: Linda C. Wilson 60212

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:

# X-700 Daily Tank Inspections

Date: 7-30-09

Name & Badge #: SIDOWARD 57363

Manager Name & Badge: Linda C. Wilson 60212

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:

# X-700 Daily Tank Inspections

Date: 7-29-09

Name & Badge #: S HOWARD

57303

Manager Name & Badge: Michael Danner 55879

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:



# X-700 Daily Tank Inspections

Date: 7-28-09

Name & Badge #: J HOWARD

57303

Manager Name & Badge: Joe Cullen, 60212

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:

# X-700 Daily Tank Inspections

Date: 7-27-09

Name & Badge #: SHOWARD 57303

Manager Name & Badge: Julie C. White 60212

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:

# X-700 Daily Tank Inspections

Date: 7-24-09

Name & Badge #: JD HOWARD 57303

Manager Name & Badge: Judy 61320

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:

# X-700 Daily Tank Inspections

Date: 7-23-09

Name & Badge #: J.D. HOWARD 57303

Manager Name & Badge: J. Lopez 61320

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:

# X-700 Daily Tank Inspections

Date: 7-22-09

Name & Badge #: SD HOWARD 57303

Manager Name & Badge: J. [Signature] 61320

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:

# X-700 Daily Tank Inspections

Date: 7-21-09

Name & Badge #: J.D. HOWARD 57303

Manager Name & Badge: J. Howard 161320

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:

# X-700 Daily Tank Inspections

Date: 7-20-09

Name & Badge #: J.D. HOWARD 57303

Manager Name & Badge: J.P. GALT 61320

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:



# X-700 Daily Tank Inspections

Date: 7-17-09

Name & Badge #: JD HOWARD 57303

Manager Name & Badge: M. W. Danner 55829

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:

# X-700 Daily Tank Inspections

Date: 7-16-09

Name & Badge #: J.D. HOWARD 57303

Manager Name & Badge: Maluk Danner 55879 7/16/09

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N	N	N	N

Comments:

# X-700 Daily Tank Inspections

Date: 7-15-09

Name & Badge #: J.D. HOWARD 57303

Manager Name & Badge: Linda C. Welton 60212

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N/A	N/A	N/A	N/A

Comments:

FLM Comment:  
There are no visible signs of erosion to interior walls  
JCH 7/15/09

# X-700 Daily Tank Inspections

Date: 7-14-09

Name & Badge #: J.D. HOWARD 57303

Manager Name & Badge: Linda C. Wilson 60212

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N/A	N/A	N/A	N/A

Comments:

FLM Comment:  
There are no visible sign of erosion, other than normal expectations, to the interior walls. YDW 7/14/09 1000hrs-

# X-700 Daily Tank Inspections

Date: 07-13-09

Name & Badge #: J.M. Reed 57391

Manager Name & Badge: Mahd Damm 55879

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N/A	N/A	N/A	N/A

Comments:

# X-700 Daily Tank Inspections

Date: 07-10-09

Name & Badge #: J.M. Reed 5739/

Manager Name & Badge: J. Polyz 61320

	<u>Tank #1</u>	<u>Tank #2</u>	<u>Tank #3</u>	<u>Tank #4</u>
Tanks properly labeled (Yes (Y) or No (N))	Y	Y	Y	Y
Accumulation state date, if applicable, on label (Yes (Y) or No (N))	Y	Y	Y	Y
Aboveground portion of the tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., physical condition)	S	S	S	S
Operating floor around tank (Satisfactory (S) or Unsatisfactory (U)) (i.e., leaks)	S	S	S	S
Evidence of unauthorized additions to tank (Yes (Y) or No (N))	N	N	N	N
Erosion of interior walls (Yes (Y) or No (N))	N/A	N/A	N/A	N/A

Comments:

## ATTACHMENT 3

### Problem Report

PR-PTS-09-01372 – Storage of Fluorescent Bulbs Issue

### Photos

Fluorescent Tubes

### Waste Management Bulletin #09-001

Universal Waste Lamp Handling

### USEC Open Line – August 11, 2009

Handling of Universal Waste Lamps

### Bill of Lading – X-13630-4

Universal Waste Shipped to USA Lamp and Ballast  
Recycling, Inc. on November 11, 2009



**Action Datasheet**  
**X09I01408-001 (PR-PTS-09-01372): STORAGE OF FLUORESCENT**  
**BULBS ISSUE**

Welcome, Barbara Halcomb

return to listing

Action 1 of 1

**Action Data      Attachments (2)**

Action ID and Sequence Number	Responsible Person
X09I01408-001 (001)	Horsley, Kenneth J
Action Type	Group
OT: Other Actions	X40-360: Technical Services - Waste Management
Status	Schedule Date
CLSD: Closed	08/28/2009
Regulatory Engineer	

<b>Action Flags:</b>	<input checked="" type="checkbox"/> CAQ	<input type="checkbox"/> Regulatory	<input type="checkbox"/> Priority	<input type="checkbox"/> Effectiveness Review
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**Description**

Issue Environmental Bulletin on Management of Universal Waste Lamps

**Action Source Information****Assessment**

X09A00001: 2009 PROBLEM REPORTS

**Issue**

X09I01408 (PR-PTS-09-01372): STORAGE OF FLUORESCENT BULBS ISSUE

Issue Assigned To Group	Issue Owner	Issue Priority
X40-360: Technical Services - Waste Management	Anzelmo, James V	

**Status Comments**

08/31/2009:

Completed.

Approval comment by Fogel, Douglas K for Issue Owner: Anzelmo, James V: DK Fogel for JV Anzelmo

Actions have been completed by issuing Waste Management Bulletin 9-001 and distributed by Open Line Article "Handling of Universal Waste Lamps" on August 11, 2009.

[Response by Horsley, Kenneth J]

Created by Etling, Sandra L on 8/5/2009 4:33:52 PM  
 Last modified by Etling, Sandra L on 4/13/2010 12:14:07 PM



**Above and to Right: Shipment  
packaging for Fluorescent Tubes**



**Below: Field Packaging  
for Fluorescent Tubes**





## Memorandum

To: All USEC Employees  
From: USEC Waste Management  
Date: August 7, 2009  
Subject: Waste Management Bulletin #09-001



### Universal Waste Lamp Handling



#### **When does the lamp become a Universal Waste Lamp?**

Non-contaminated fluorescent, incandescent, and High Intensity Discharge (HID) lamps of all types are considered Universal Waste Lamps when they are “burned out” and are removed from the lamp fixture. In addition, if the lamp fixture is removed from service any lamp remaining in the fixture is a Universal Waste Lamp, even if the lamp is still usable, unless removed and stored for future use.

#### **How are Universal Waste Lamps stored prior to disposal?**

Once a lamp becomes a Universal Waste Lamp it must be placed in a **closed, rigid** container by the end of the shift to meet the requirements of the Federal and Ohio Environmental Protection Agencies. Acceptable containers at PORTS include various sized metal drums, cardboard bulb boxes, wooden shipping crates, or fiberboard drums (if available).

During the shift, lamps may be stored in the same container as new lamps, but must be placed in a Universal Waste Lamps container by the end of shift.

#### **What labeling is required for Universal Waste Lamps?**

The minimum requirement for the Universal Waste Lamp container is the words “UNIVERSAL WASTE LAMPS” and the date the first Universal Waste Lamp was placed into the container. Labels for Universal Waste Lamps are available from Field Services Personnel.

#### **What happens if a lamp is found broken or breaks during movement?**

Once a lamp is identified as broken it may no longer be managed as a Universal Waste Lamp. The broken lamp must be cleaned up and all debris treated under the Resource Conservation and Recovery Act (RCRA). Contact Field Services or RCRA Waste Engineer for instructions.

#### **What other requirements are placed on lamps?**

Requirements of the XP2-EW-WM1200, “Waste Minimization and Pollution Prevention,” require awareness of techniques to prevent pollution and minimize waste. Therefore, to prevent waste through breakage no lamp, new or used, shall be stored outside a rigid container.

**For more information on waste and waste handling requirements, please review XP2-EW-WM1032, “Waste Generation,” and contact Field Services/Waste Management.**



THE

OPENLINE

Government Services  
A Proud Heritage with a Focus on the Future

Tuesday, August 11, 2009

## Industrial Safety Update

No recordable injuries occurred yesterday. As of August 10, we have worked 76 days without a Days Away injury/illness. (Industrial Safety)

## Calendar of Upcoming Events Line-Up

Aug 11	Safety Meetings, Rm. 310, X710, 8 am, 10 am, 12 pm, 2 pm
Aug 13	USW Union Meeting 4:30 p.m., Union Hall
Aug 18	Safety Meetings, Rm. 310, X710, 8 am, 10 am, 12 pm, 2 pm
Aug 25	Safety Meetings, Rm. 310, X710, 8 am, 10 am, 12 pm, 2 pm
Sept 7	Labor Day Holiday
Sept 19	USEC Family Luau Pike Co. Fairgrounds
Oct 12	Columbus Day Holiday
Nov 26-27	Thanksgiving Holiday
Dec 24-25	Christmas Holiday

# Handling of Universal Waste Lamps

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For more information on waste and waste handling requirements, please review XP2-EW-WM1032, "Waste Generation," and contact Field Services/Waste Management.

## STRAIGHT BILL OF LADING- SHORT FORM - Original - Not Negotiable

RECEIVED, subject to the classifications and tariffs in effect on the date of issue of this Original Bill of Lading.

BOL#: X-13630-4

Date: 11/11/2009

## USA LAMP AND BALLAST

Carrier SCAC:

Page: 1 of 1

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail, or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of said bill of lading, including those on the attachment thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

UNITED STATES ENRICHMENT CORP

3930 U. S. ROUTE 23

P. O. BOX 628

M. S. 6050

PIKETON OHIO 45661



## CONSIGNEE (SHIP TO)

USA LAMP AND BALLAST RECYCLING, INC.

7806 ANTHONY WAYNE AVENUE

CINCINNATI, OHIO 45216

513-641-4155

TRAILER # 529733

Bill of Lading# X-13630-4

Freight charges are:

**COLLECT**

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and other lawfully due charges.

*[Signature]*  
(Signature of Consignor)

## Special Instructions:

NO. PKGS	UM	HM (X)	DESCRIPTION OF ARTICLES, KIND OF PACKAGE, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (subject to correction)	CLASS	NMFC	SUB
1	LOT		Electronic Scrap (Flourescent bulbs, Incandescent Lamps, dry batteries, HID Lamps, universal waste lamps)	8188			

**CERTIFIED TO BE AN ACCURATE RECORD**  
SIGNATURE *[Signature]*  
DATE 11/11/09

1	8188 LBS	TOTALS
MARK "X" IN THE HM COLUMN TO DESIGNATE HAZARDOUS MATERIALS AS DEFINED IN DOT REGULATIONS		

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby stated by the shipper to be not exceeding

PER

\* The firm boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Uniform Freight Classifications.

\* Shipper's intent in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per

SHIPPER: UNITED STATES ENRICHMENT CORP

M D KARR

Shipper Phone # / Fax # / E-mail

740-897-2176 740-897-2517

walburnja@ports.usec.com

EMERGENCY RESPONSE NUMBER: 740-897-3025

CONTACT: Plant Shift Superintendent

PLACARDS REQUIRED

SUPPLIED BY DRIVER

NONE

N

Received by: USA LAMP AND BALLAST RECYCLING, INC.

Carrier/Driver: USA LAMP AND BALLAST

1

*[Signature]*

Receiving &amp; Carrier Signatures

Star Bill of Lading Software - www.starbol.com

UE-399  
(07/09/04)

# UNITED STATES ENRICHMENT CORPORATION SHIPPING ORDER

## PART I — MATERIAL INFORMATION

Date: 11/11/09	Requestor: Kenneth J. Horsley	Phone: 2656	Mail Stop: 9030	Manager Approval: Barbara Halcomb	Requisition No.: N/A	Shipping Order No.: X-13630-4 BLANKET
-------------------	----------------------------------	----------------	--------------------	--------------------------------------	-------------------------	---

Item/Property No.	Item Description	Qty	U/M	Unit Value	Total Value	Item Location
N/A	Fluorescent Lamps	7,285	LBS	N/A	N/A	XT-847
N/A	HID Lamps - Universal Waste Lamps	207	LBS	N/A	N/A	XT-847
N/A	Incandescent Lamps - Universal Waste Lamps	107	LBS	N/A	N/A	XT-847
N/A	Lithium Batteries, 9, UN3090, PG II (ERG#138) - Lithium-ion batteries, Universal Waste Batteries - for Recycle	40	LBS	N/A	N/A	XT-847
N/A	Batteries, dry, containing potassium hydroxide solid, 8, UN3028, PG III (ERG#154) - Nickel-Cadmium, Universal Waste Batteries - for Recycle	549	LBS	N/A	N/A	XT-847

Hazardous Material? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hazardous Waste? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(PGDP Only) Material Approved for Free Release Off-site? <input type="checkbox"/> Yes <input type="checkbox"/> No Survey No.: _____	Vendor Authorized for Radioactive Material Receipt per 10 CFR 71? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Unknown
---	--	---

Reason for Shipment / Special Shipping Instructions / Comments:  
For Recycling at USA Lamp and Ballast Recycling, Inc.

## PART II — SHIPPING INFORMATION

PO / Rel.:	Buyer/Material Control: N/A	InterOrg Transfer (Material Control Only): Receipt Traveler Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	Vendor Authorized for Radioactive Material Receipt per 10 CFR 71? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
------------	--------------------------------	---	--

Ship To (P.O. Boxes NOT allowed): USA Lamp and Ballast Recycling, Inc 7806 Anthony Wayne Ave. Cincinnati, OH 45216  Phone No.: 513-641-4155	Ship Via: <input type="checkbox"/> Prepaid (USEC) <input checked="" type="checkbox"/> Collect (Supplier)  <input type="checkbox"/> Premium Transportation Authorized  Collect Account Number: _____  Carrier Type: _____	Originating Facility:  <input type="checkbox"/> Paducah Gaseous Diffusion Plant, 5600 Hobbs Road, Paducah, KY 42001  <input checked="" type="checkbox"/> Portsmouth Gaseous Diffusion Plant, 3930 U.S. Route 23 South, Piketon, OH 45661
--	---	--

## Part III — PACKAGING AND TRANSPORTATION

Packaging and Transportation:	Hazard Class (if applicable):	Bill of Lading Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	Carrier:
-------------------------------	-------------------------------	--	----------

Special Shipping Instructions:

## Part IV — SHIPPING AND RECEIVING

Shipping Weight: 8188 Gross _____ Tare _____ Net _____	Number of Containers:	Type of Containers:	B/L No.:
---	-----------------------	---------------------	----------

Car No.: 529733	Seal No.:	Materials Representative: <i>B. Pli</i>	Date Shipped: 11/11/09	Material Received By: <i>Wm. Martin</i>
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Final Administrative Review Comments:

Shipping & Receiving FLM Final Administrative Review:	Copies: Originator Buyer, if procurement action required
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Bill of Lading: X-13630-4

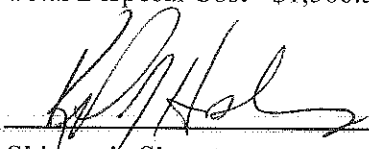
UNIVERSAL WASTE  
SHIPPED TO USA LAMP AND BALLAST RECYCLING, INC ON November 11, 2009

RFD No.	Contents	No. Cont.	Container Size	Weight	Disposal Cost	Location	Release Type
63452	4' Fluorescent Tubes	*	Fluorescent	**	\$4.96	847 C-3	UE-609 and A-2164
63221	4' Fluorescent Tubes	*	Fluorescent	**	\$14.40	847 C-3	UE-609 and A-2164
62445	4' Fluorescent Tubes	*	Fluorescent	**	\$1,199.84	847 C-3	UE-609 and A-2164
63168	HID Bulbs	2	55 Gallon	207	\$101.15	847 C-3	UE-609 and A-2164
63509	Incandescent Bulbs, S	1	55 Gallon	107	\$40.00	Other 847	UE-609 and A-2164
62924	Lithium Battery	1	5 Gallon D	40	\$14.00	847 C-3	A-3337
63325	Ni-cad Battery	1	30 Gallon	254	\$88.90	Other 847	UE-609 and A-2164
63395	Ni-cad Battery	1	30 Gallon	295	\$103.25	847 C-3	A-3337

50 TOTAL PACKAGES

8,188 LBS

Total Disposal Cost \$1,566.50

  
Shipper's Signature

11/11/09  
Date

Fluorescent Tube Containers

* No of Containers	** Weight
39 16" Fiber Tubes	2535
0 21" Fiber Tubes	0
0 8 Ft Crate	0
0 6 Ft Crate	0
5 4 X 4 Crate	4750
0 5 Ft Crate	0
0 4' Fluorescent Tube Box	0
0 8' Fluorescent Tube Box	0



## ATTACHMENT 4

USEC Shipping Order – UE-399

Lead Acid Batteries

Request for Disposal 61599 & 63315

(07/09/04)

# UNITED STATES ENRICHMENT CORPORATION

## SHIPPING ORDER

PART I — MATERIAL INFORMATION							
Date: 3/31/10	Requestor: Didi Hannah	Phone: 4593	Mail Stop: 3106	Manager Approval: Doug Arnett	Requisition No.: N/A	Shipping Order No.: X-10886-6 Blanket	
Item/Property No.	Item Description	Qty	U/M	Unit Value	Total Value	Item Location	
	Batteries, lead acid		Ea			25 skids	
	Batteries, steel encased forklift batteries		Ea				
	Batteries, telecommunications, standby power batteries		Ea				
	Miscellaneous and other lead bearing material		Ea				
	Batteries, lead acid, non-automotive		Ea				
	Batteries, lead rounds with debris		Ea				
Hazardous Material? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Hazardous Waste? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		(PGDP Only) Material Approved for Free Release Off-site? <input type="checkbox"/> Yes <input type="checkbox"/> No Survey No.: _____			Vendor Authorized for Radioactive Material Receipt per 10 CFR 71? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Unknown
Reason for Shipment / Special Shipping Instructions / Comments: SHIP MATERIAL TO SUPPLIER FOR RECYCLING/VARIOUS BATTERY TYPES. Scheduled delivery appt. with DOE RUN is between 9-11 am Central time on 4/01/10.							
PART II — SHIPPING INFORMATION							
PO / Rel.: 413272	Buyer/Material Control: Deborah Kelsey	InterOrg Transfer (Material Control Only): Receipt Traveler Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Vendor Authorized for Radioactive Material Receipt per 10 CFR 71? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Ship To (P.O. Boxes NOT allowed): DOE RUN HC 1 BOX 1395 BOSS, MO 65440-9501  CONTACT FOR DELIVERY APPT.: CONNIE PINKSTON 636-933-3149  Phone No.: 800-633-8566		Ship Via: <input checked="" type="checkbox"/> Prepaid (USEC) <input type="checkbox"/> Collect (Supplier)  <input type="checkbox"/> Premium Transportation Authorized  Collect Account Number: _____  Carrier Type: <u>Truckload - Van trailer</u>		Originating Facility:  <input type="checkbox"/> Paducah Gaseous Diffusion Plant, 5600 Hobbs Road, Paducah, KY 42001  <input checked="" type="checkbox"/> Portsmouth Gaseous Diffusion Plant, 3930 U.S. Route 23 South, Piketon, OH 45661			
Part III — PACKAGING AND TRANSPORTATION							
Packaging and Transportation: Jim Walburn 3/31/10		Hazard Class (if applicable): N/A		Bill of Lading Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	Carrier: MinuteMan		
Special Shipping Instructions:							
Part IV — SHIPPING AND RECEIVING							
Shipping Weight: _____ Gross _____ Tare _____ Net		Number of Containers:		Type of Containers:	B/L No.:		
Car No.:	Seal No.:	Materials Representative: <i>D.E. Arnett</i>	Date Shipped: 3-31-10	Material Received By: <i>D. Arnett</i>			
Final Administrative Review Comments:							
Shipping & Receiving FLM Final Administrative Review: <i>Didi Hannah</i>			Copies: Originator Buyer, if procurement action required				

-- Use Black Ink Only --

## REQUEST FOR DISPOSAL

RFD Number 61599

<b>GENERATOR SECTION</b>		ONLY ONE CONTAINER TYPE & WASTE TYPE PER RFD.	
1. Waste Location: <i>X750 South West Outside</i>		2. Number of Containers: <i>6 pallets</i>	
3. Waste Origin (bldg/facility): <i>X750, xsite</i>		4. Owner: <input checked="" type="checkbox"/> USEC <input type="checkbox"/> DOE	
5. Activity Generating Waste: <i>Vehicle Maintenance</i>			
6. Container Size (e.g. 55-gallon, 10L polybottle): <i>N/A</i>		7. Container Material (e.g. steel, plastic): <i>wood</i>	
8. Physical State of Waste: <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas			
9. Waste Description - fully describe waste, include all known chemicals/constituents present in waste (Example: rags & wipes contaminated with Krylon Motor Cleaner) <i>Lead acid batteries for recycle 68 total</i>			
Accountable Container Numbers (e.g. Polybottles, F-Cans): <i>N/A</i>			
Material Code (if applicable): <i>N/A</i>			
10. Is this Waste Radioactively Contaminated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>UE609 12/30/08 + Survey 6/17/2009</i>			
Attach supporting documentation. Check one: <input checked="" type="checkbox"/> HP Survey <input type="checkbox"/> Analytical <input type="checkbox"/> Process Knowledge			
If radioactive, indicate U-235 mass and concentration per container: <i>N/A</i>			
11. Accumulation Start Date for RCRA Waste: <i>N/A</i>			
12. Date Container First Placed into Use for PCB Waste ≥50 ppm or from a source ≥50 ppm: <i>N/A</i>			
13. Date Removed from Service for PCB Equipment: <i>N/A</i>			
14. PCB Concentration: <i>N/A</i>			
Name: <i>Wayne Wilkes</i>		Badge Number: <i>60883</i>	Date: <i>6-17-2009</i>
Cost Center: <i>9891-00000000</i>		Mail Stop: <i>3002</i>	Phone: <i>(440) 977-6948</i>
<b>WASTE MANAGEMENT SECTION</b>			
15. Field Services Approval: <i>BA Kelley</i>		16. Date RFD Form Received: <i>6/24/09</i>	
17. Container Labels: <input checked="" type="checkbox"/> USEC <input type="checkbox"/> DOE <input type="checkbox"/> Hazardous <input type="checkbox"/> PCB M <input type="checkbox"/> PCB <50 <input type="checkbox"/> Radioactive <input type="checkbox"/> Fissile			
<input type="checkbox"/> Used Oil <input type="checkbox"/> Asbestos <input type="checkbox"/> Non-Regulated <input checked="" type="checkbox"/> Other (Specify) <i>white id</i>			
18. Waste Category: <i>NR SW-4</i>		19. Waste Stream ID Number: <i>NR SW-4</i>	
20. Waste Type: <i>NR</i>		21. EPA Waste Number(s): <i>N/A</i>	
22. Sampling Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		23. Unrestricted Release: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
24. Criteria Used: <input checked="" type="checkbox"/> Survey <input type="checkbox"/> Area of Generation		25. If RFD is Voided, State Reason:	
26. Special Instructions:			
Name: <i>Ken Holsky</i>		Date: <i>6/24/09</i>	
27. Deliver to: <input type="checkbox"/> X-7725 <input type="checkbox"/> X-326L <input type="checkbox"/> X-7745RN <input type="checkbox"/> X-7745RS <input type="checkbox"/> XT-847 <input type="checkbox"/> X-705 <input checked="" type="checkbox"/> Other: <i>WH</i>			
DOE Facility Approval:		Location:	
Date:		Date:	
<b>WASTE TRANSPORTER/WASTE MANAGEMENT SECTION</b>			
28. A. Facility Delivered To:		Container Number	Gross Wt.
Transporter's Initials/Date:			
B. Facility Delivered To:			
Transporter's Initials/Date:			
29. Storage Location: <i>WHSE 9 / 744 W</i>			
Operator's Name/Date: <i>Wm Yohi 6-25-09</i>			
30. Treatment/Disposal Facility: <i>DOE Run</i>			
Manifest Number/Date: <i>X-10886-6</i>			

DISTRIBUTION: WHITE - WASTE MANAGEMENT, BLUE - STORAGE FACILITY, GREEN - GENERATOR

Rest to  
Ken Holsky  
BA Kelley  
6/25/09

-- Use Black Ink Only --

## REQUEST FOR DISPOSAL

RFD Number 63315

GENERATOR SECTION		ONLY ONE CONTAINER TYPE & WASTE TYPE PER RFD.		RFD Number 63315	
1. Waste Location:	X750 Outside West	2. Number of Containers:	5 pallets		
3. Waste Origin (bldg/facility):	X750 x site	4. Owner:	<input checked="" type="checkbox"/> USEC <input type="checkbox"/> DOE		
5. Activity Generating Waste:	Vehicle Maintenance				
6. Container Size (e.g. 55-gallon, 10L polybottle):	N/A	7. Container Material (e.g. steel, plastic):	wood		
8. Physical State of Waste:	<input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas				
9. Waste Description - fully describe waste, include all known chemicals/constituents present in waste (Example: rags & wipes contaminated with Krylon Motor Cleaner) Lead Acid Batteries					
Total - 77					
Accountable Container Numbers (e.g. Polybottles, F-Cans): N/A					
Material Code (if applicable) N/A					
10. Is this Waste Radioactively Contaminated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>Blanket</i>					
Attach supporting documentation. Check one: <input checked="" type="checkbox"/> HP Survey <input type="checkbox"/> Analytical <input type="checkbox"/> Process Knowledge <i>HP Survey</i>					
If radioactive, indicate U-235 mass and concentration per container: N/A <i>8/26/09</i>					
11. Accumulation Start Date for RCRA Waste: N/A					
12. Date Container First Placed into Use for PCB Waste ≥50 ppm or from a source ≥50 ppm: N/A					
13. Date Removed from Service for PCB Equipment: N/A					
14. PCB Concentration: N/A					
Name: Wayne Wilkes		Badge Number: 60883		Date: 8-28-09	
Cost Center: 43MMADMN		Mail Stop: 3002		Phone: (740) 897-5948	
WASTE MANAGEMENT SECTION					
15. Field Services Approval: <i>RSKeller</i>			16. Date RFD Form Received: 8/28/09		
17. Container Labels: <input type="checkbox"/> USEC <input type="checkbox"/> DOE <input type="checkbox"/> Hazardous <input type="checkbox"/> PCB M <input type="checkbox"/> PCB <50 <input type="checkbox"/> Radioactive <input type="checkbox"/> Fissile <input type="checkbox"/> Used Oil <input type="checkbox"/> Asbestos <input type="checkbox"/> Non-Regulated <input checked="" type="checkbox"/> Other (Specify): White Label ID					
18. Waste Category: NRSW-A		19. Waste Stream ID Number: NRSW-A		20. Waste Type: NR	
21. EPA Waste Number(s): N/A		22. Sampling Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
23. Unrestricted Release: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		24. Criteria Used: <input checked="" type="checkbox"/> Survey <input type="checkbox"/> Area of Generation			
25. If RFD is Voided, State Reason:					
26. Special Instructions:					
Name: <i>Ken Ho</i>			Date: 8/28/09		
27. Deliver to: <input type="checkbox"/> X-7725 <input type="checkbox"/> X-326L <input type="checkbox"/> X-7745RN <input type="checkbox"/> X-7745RS <input type="checkbox"/> XT-847 <input type="checkbox"/> X-705 <input checked="" type="checkbox"/> Other: WH9					
DOE Facility Approval:		Location:		Date:	
WASTE TRANSPORTER/WASTE MANAGEMENT SECTION					
28. A. Facility Delivered To: WHSE 9 (744-W)		Container Number		Gross Wt	
Transporter's Initials/Date: <i>mm 8-31-09</i>					
B. Facility Delivered To:					
Transporter's Initials/Date:					
29. Storage Location: WHSE 9 (744-W)					
Operator's Name/Date: <i>Mike Nof 8-31-09</i>					
30. Treatment/Disposal Facility: DOE RUN					
Manifest Number/Date: X-10886-6					

DISTRIBUTION: WHITE - WASTE MANAGEMENT, BLUE - STORAGE FACILITY, GREEN - GENERATOR

*Scanned by  
to Ken 8/31/09*

OHIO E.P.A.  
MAY 3 2010  
BEFORE THE  
OHIO ENVIRONMENTAL PROTECTION AGENCY

ENTERED DIRECTOR'S JOURNAL

In the Matter of:

United States Enrichment Corporation  
3930 US Route 23 South  
Piketon, Ohio 45661

Respondent

Director's Final  
Findings and Orders

I certify this to be a true and accurate copy of the  
official documents as filed in the records of the Ohio  
Environmental Protection Agency.

PREAMBLE

By: J. H. Shapiro Date: 5/3/2010

It is agreed by the parties hereto as follows:

I. JURISDICTION

These Director's Final Findings and Orders (Orders) are issued to United States Enrichment Corporation (Respondent) pursuant to the authority vested in the Director of the Ohio Environmental Protection Agency (Ohio EPA) under Ohio Revised Code (ORC) §§ 3734.02(G), 3734.13 and 3745.01.

II. PARTIES BOUND

These Orders shall apply to and be binding upon Respondent and successors in interest liable under Ohio law. No change in ownership of the Respondent or of the Facility shall in any way alter Respondent's obligations under these Orders.

III. DEFINITIONS

Unless otherwise stated, all terms used in these Orders shall have the same meaning as defined in ORC Chapter 3734. and the rules promulgated there under.

#### IV. FINDINGS

The Director of Ohio EPA has determined the following findings:

1. Respondent is a "person" as defined in ORC § 3734.01(G) and Ohio Administrative Code (OAC) rule 3745-50-10(A).
2. Respondent operates a uranium enrichment facility located at 3930 US Route 23 South, Piketon, Pike County, Ohio 45661 (Facility).
3. At the Facility, Respondent generates "hazardous waste" as that term is defined by ORC § 3734.01(J) and OAC rules 3745-50-10(A) and 3745-51-03. Respondent is a large quantity generator of hazardous waste and has been assigned EPA ID number OHD987054723. The hazardous wastes generated by Respondent at the Facility include lab packs with various hazardous waste codes, off specification chemicals (D001/D002/D010/D018), contaminated PPE (F002/F005), fluorescent bulbs (D009), non-empty aerosol cans (D001/U226), clean-up and spill residues (D002), lab solutions (D001/D002/D003/F002/F003) and, gasoline and diesel fuel (D001/D018). Respondent also generates used oil, and is a large quantity handler of universal waste lamps and batteries.
4. On November 3, 2008, Ohio EPA conducted a compliance evaluation inspection at the Facility. As a result of this inspection, Ohio EPA determined that Respondent had, *inter alia*:
  - a. Stored hazardous waste in Tank 2 and Tank 3 of the X-700 building for greater than ninety days without a hazardous waste installation and operation permit, in violation of ORC § 3734.02 (E) and (F). Respondent stated that the hazardous waste had been stored for at least four (4) years in Tanks 2 and 3. Tank 2 stored lead acid battery wastes characteristically hazardous for corrosivity (D002) and lead (D008), as described in OAC rules 3745-51-22 and 3745-51-24. Tank 3 stored ground water containing F001 listed hazardous waste, as described in OAC rule 3745-51-31;
  - b. Failed to evaluate wastes in Tanks 1, 4, and 5 of the X-700 building, in violation of OAC rule 3745-52-11;
  - c. Failed to properly label containers of used oil, in violation of OAC rule 3745-279-22(C); and



- d. Failed to properly label containers of universal waste lamps, in violation of OAC rule 3745-273-34(E).
5. Ohio EPA notified Respondent of the violations referenced in Finding No. 4. by letter dated November 24, 2008. This letter also notified Respondent that the violations referenced in Finding Nos. 4.c. and 4.d. were abated at the time of the inspection.
6. Ohio EPA received a letter from Respondent dated December 23, 2008, in response to the violations referenced in Finding No. 4. of these Orders.
7. After reviewing the information contained in Respondent's response referenced in Finding No. 6., the Director has determined that Respondent has abated the violation referenced in Finding No. 4.b. of these Orders by submitting sample results for the wastes in all five tanks at the Facility. Based upon the sample results, Respondent determined the waste in Tank 4 was a characteristic hazardous waste for arsenic, chromium, lead and selenium (D004, D007, D008, D010), as described in OAC rule 3745-51-24. Respondent stated that the hazardous waste had been stored for at least four (4) years in Tank 4. Therefore, the Director has determined Respondent stored hazardous waste in Tank 4 without a hazardous waste installation and operation permit in violation of ORC § 3734.02 (E) and (F). Furthermore, the Director has determined that Respondent failed to comply with hazardous waste tank requirements for Tanks 2, 3 and 4, in violation of OAC rules 3745-55-91/3745-66-91 through 3745-55-99/3745-66-100.
8. By electronic mail dated March 19, 2009, Respondent notified Ohio EPA that even though the waste in Tank 1 did not test characteristically hazardous, Respondent determined that ground water containing F001 listed hazardous waste was stored in the tank since June 8, 2001. Therefore, the Director has determined Respondent stored hazardous waste in Tank 1 without a hazardous waste installation and operation permit in violation of ORC § 3734.02 (E) and (F). Furthermore, the Director has determined that Respondent also failed to comply with hazardous waste tank requirements for Tank 1, in violation of OAC rules 3745-55-91/3745-66-91 through 3745-55-99/3745-66-100.
9. Because Respondent established and operated a hazardous waste storage facility as described in Finding Nos. 4.a., 7, and 8. of these Orders, Respondent is required to have a hazardous waste facility installation and operation permit and is subject to all general facility standards found in OAC Chapters 3745-54



and 55, including but not limited to, closure in accordance with OAC rules 3745-55-11 through 3745-55-20, the financial assurance for closure requirements contained in OAC rules 3745-55-42 through 3745-55-51 and corrective action for waste management units in accordance with OAC rule 3745-54-101. To obtain a hazardous waste facility installation and operation permit, Respondent is required to submit "Parts A and B" of the application in accordance with OAC Chapter 3745-50.

10. Pursuant to ORC § 3734.02(G) and OAC rule 3745-50-31, the Director may, by order, exempt any person generating, storing, treating, or disposing of hazardous waste in such quantities or under such circumstances that, in the determination of the Director, it is unlikely that the public health or safety or the environment will be adversely affected thereby, from any requirement to obtain a permit or comply with other requirements of ORC Chapter 3734. Any such exemption shall be consistent with and equivalent to rules promulgated under the Resource Conservation and Recovery Act of 1976, 90 Stat. 2806, 42 U.S.C. § 6921 et seq., as amended.
11. The submittal of a Closure Plan for the tanks where hazardous waste was stored, which complies with the administrative requirements of OAC Chapters 3745-65 and 66 and the substantive requirements of OAC Chapters 3745-54 and 55 including but not limited to the groundwater protection program in accordance with OAC rules 3745-54-90 through 3745-54-100 in lieu of the submittal of an application for a hazardous waste facility installation and operation permit is unlikely to adversely affect the public health or safety or the environment. Therefore, the Director finds that the issuance to Respondent of an exemption from the requirement to submit an application for a hazardous waste facility installation and operation permit for the tanks that stored hazardous waste at the Facility is unlikely to adversely affect the public health or safety or the environment within the meaning of ORC § 3734.02(G).

## **V. ORDERS**

Respondent shall achieve compliance with Chapter 3734. of the ORC and the regulations promulgated there under according to the following compliance schedule:

1. Within 30 days of the effective date of these Orders, Respondent shall submit documentation demonstrating that all hazardous wastes in Tanks 1, 2, 3, and 4 at the Facility have been properly managed.

2. The Respondent is hereby exempted from the requirement to submit an application for a hazardous waste facility installation and operation permit for the Facility, *provided that* Respondent complies with the following:
  - a. Within 90 days of the effective date of these Orders, Respondent shall submit to Ohio EPA for review and approval a Closure Plan(s) for the hazardous waste tanks referenced in Finding Nos. 4., 7. and 8. of these Orders.
  - b. This Closure Plan(s) shall comply with the administrative requirements of OAC Chapters 3745-65 and 3745-66 and the substantive requirements of OAC Chapters 3745-54 and 3745-55, including but not limited to, the groundwater protection program in accordance with OAC rules 3745-54-90 through 54-100.
  - c. The Closure Plan(s) is subject to approval by Ohio EPA. If Ohio EPA does not approve the Closure Plan(s) and provides Respondent with a written statement of deficiencies, Respondent shall submit a revised Closure Plan(s) for approval addressing the deficiencies within 30 days of receiving such written statement. If Ohio EPA modifies the Closure Plan(s), the modified Closure Plan(s) becomes the approved plan.
  - d. Upon Ohio EPA's written approval of the Closure Plan(s), Respondent shall implement the approved Closure Plan(s) in the manner and pursuant to the time frames set forth in the approved Closure Plan and OAC rules 3745-55-13/3745-66-13;
  - e. Within 30 days after the approval of the Closure Plan(s) pursuant to Order No. 2.d., above, Respondent shall submit to Ohio EPA for review, comment and approval a closure cost estimate. Within 30 days after approval of the closure cost estimate, Respondent shall establish financial assurance and liability coverage for the areas of the Facility subject to closure, in accordance with OAC rules 3745-55-42 through 3745-55-47; and
  - f. Within 60 days after completion of closure, Respondent shall submit certification of closure to Ohio EPA in accordance with OAC rule 3745-55-15.

Completion of Order No. 2 shall abate the violations referenced in Finding Nos. 4.a., 7. and 8. of these Orders.

3. Respondent shall pay Ohio EPA the amount of \$64,150.00 in settlement of Ohio EPA's claims for civil penalties, which may be assessed pursuant to ORC Chapter 3734. in accordance with the following provisions:
  - a. Within 30 days after the effective date of these Orders, Respondent shall pay Ohio EPA the amount of \$51,320.00 in settlement of Ohio EPA's claims for civil penalties, which may be assessed pursuant to ORC Chapter 3734. and which will be deposited into the hazardous waste cleanup fund established pursuant to ORC § 3734.28. Payment shall be made by an official check made payable to "Treasurer, State of Ohio" for \$51,320.00. The official check shall be submitted to Ohio EPA, Office of Fiscal Administration, Department L-2711, Columbus, Ohio 43260-2711, together with a letter identifying Respondent. A copy of this check shall be submitted in accordance with Section X. of these Orders.
  - b. In lieu of paying the remaining \$12,830.00 of civil penalty to Ohio EPA, Respondent shall fund a supplemental environmental project (SEP) by making a contribution in the amount of \$12,830.00 to the Ohio EPA Clean Diesel School Bus Program (Fund 5CD). Respondent shall make the payment within 30 days after the effective date of these Orders by tendering an official check made payable to "Treasurer, State of Ohio" for \$12,830.00. The official check shall be submitted to Brenda Case, or her successor, Ohio EPA, Office of Fiscal Administration, Department L-2711, Columbus, Ohio 43260-2711, together with a letter identifying Respondent. A copy of this check shall be submitted in accordance with Section X. of these Orders, and an additional copy of this check shall be sent to James A. Orlemann, Assistant Chief, SIP Development and Enforcement, or his successor, Ohio EPA, Division of Air Pollution Control, P.O. Box 1049, Columbus, Ohio 43216-1049.
  - c. Should Respondent fail to fund the SEP within the required time frame established in Order No. 3.b., Respondent shall pay to Ohio EPA, within 7 days after failing to comply with Order No. 3.b., the amount of \$12,830.00 in accordance with the procedures in Order No. 3.a.

## **VI. TERMINATION**

Respondent's obligations under these Orders shall terminate when Respondent certifies in writing and demonstrates to the satisfaction of Ohio EPA that Respondent has performed all obligations under these Orders and Ohio EPA's Division of Hazardous Waste Management acknowledges, in writing, the termination of these Orders. If Ohio EPA does not agree that all obligations have been performed, then Ohio EPA will notify Respondent of the obligations that have not been performed, in which case Respondent shall have an opportunity to address any such deficiencies and seek termination as described above.

The certification shall contain the following attestation: "I certify that the information contained in or accompanying this certification is true, accurate and complete."

This certification shall be submitted by Respondent to Ohio EPA and shall be signed by a responsible official of Respondent. For purposes of these Orders, a responsible official is a [e.g., corporate officer] who is in charge of a principal business function of Respondent.

## **VII. OTHER CLAIMS**

Nothing in these Orders shall constitute or be construed as a release from any claim, cause of action or demand in law or equity against any person, firm, partnership or corporation, not a party to these Orders, for any liability arising from, or related to, the operation of Respondent's Facility.

## **VIII. OTHER APPLICABLE LAWS**

All actions required to be taken pursuant to these Orders shall be undertaken in accordance with the requirements of all applicable local, state and federal laws and regulations. These Orders do not waive or compromise the applicability and enforcement of any other statutes or regulations applicable to Respondent.

## **IX. MODIFICATIONS**

These Orders may be modified by agreement of the parties hereto. Modifications

shall be in writing and shall be effective on the date entered in the journal of the Director of Ohio EPA.

**X. NOTICE**

All documents required to be submitted by Respondent pursuant to these Orders shall be addressed to:

Ohio Environmental Protection Agency  
Southeast District Office  
Division of Hazardous Waste Management  
2195 Front Street  
Logan, Ohio 43138  
Attn: DHWM Manager

and Ohio EPA Central Office at the following address:

For mailings, use the post office box number:

Chris Korleski, Director  
Ohio Environmental Protection Agency  
Lazarus Government Center  
Division of Hazardous Waste Management  
P.O. Box 1049  
Columbus, Ohio 43216-1049  
Attn: Manager, Compliance Assurance Section

For deliveries to the building:

Chris Korleski, Director  
Ohio Environmental Protection Agency  
Lazarus Government Center  
Division of Hazardous Waste Management  
50 West Town Street  
Columbus, Ohio 43215  
Attn: Manager, Compliance Assurance Section

or to such persons and addresses as may hereafter be otherwise specified in writing by Ohio EPA.

#### **XI. RESERVATION OF RIGHTS**

Ohio EPA reserves its rights to exercise its lawful authority to require Respondent to perform corrective action at the Facility at some time in the future, pursuant to ORC Chapter 3734, or any other applicable law. Respondent reserves its rights to raise any administrative, legal or equitable claim or defense with respect to any final action of the Director regarding such corrective action. Ohio EPA and Respondent each reserve all other rights, privileges and causes of action, except as specifically waived in Section XII. of these Orders.

#### **XII. WAIVER**

In order to resolve disputed claims, without admission of fact, violation or liability, Respondent consents to the issuance of these Orders and agrees to comply with these Orders. Except for the right to seek corrective action at the Facility by Respondent, which right Ohio EPA does not waive, compliance with these Orders shall be a full accord and satisfaction for Respondent's liability for the violations specifically cited herein.

Respondent hereby waives the right to appeal the issuance, terms and conditions, and service of these Orders, and Respondent hereby waives any and all rights Respondent may have to seek administrative or judicial review of these Orders either in law or equity.

Notwithstanding the preceding, Ohio EPA and Respondent agree that if these Orders are appealed by any other party to the Environmental Review Appeals Commission, or any court, Respondent retains the right to intervene and participate in such appeal. In such an event, Respondent shall continue to comply with these Orders notwithstanding such appeal and intervention unless these Orders are stayed, vacated or modified.

#### **XIII. EFFECTIVE DATE**

The effective date of these Orders is the date these Orders are entered into the Ohio EPA Director's journal.

**XIV. SIGNATORY AUTHORITY**

Each undersigned representative of a party to these Orders certifies that he or she is fully authorized to enter into these Orders and to legally bind such party to these Orders.

**IT IS SO ORDERED AND AGREED:**

**Ohio Environmental Protection Agency**

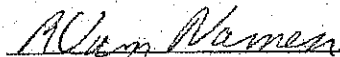


Chris Korleski  
Director

May 3, 2010  
Date

**IT IS SO AGREED:**

**United States Enrichment Corporation**



Signature

April 20, 2010  
Date

Robert Van Namen

Printed or Typed Name

Senior Vice President Uranium Enrichment

Title





OH 987 054723

July 19, 2007

Mr. Walt Francis  
United States Environmental Protection Agency  
Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604-3590

**CERTIFIED MAIL**  
**7006 2150 0002 5263 3996**

Re: Notice of Violation of the RCRA Compliance Inspection, United States Enrichment Corporation, Portsmouth Gaseous Diffusion Plant, Piketon, Ohio - OH987054723

Dear Mr. Francis:

This letter is in response to the United States Environmental Protection Agency's issuance of Notice of Violation (NOV), received June 21, 2007. The NOV states that during review of USEC Contingency Plan, the plan did not contain information or procedures that included the required written notification to the OEPA Director within 15 days after implementing the contingency plan, citing OAC 3745-54-52 (A) [40 C.F.R. 265.56 (a)].

Immediately following your inspection of June 19<sup>th</sup> through the 22<sup>nd</sup> of 2006, USEC revised the contingency plan to include 15 day reporting requirement in accordance with OAC 3745-54-56 (J) and 40 C.F.R. 265.56 (j). Anticipating the citing of both Ohio Administrative Code (OAC) and The United States Code of Federal Regulations (CFR), USEC required notifications be made to both the Director of the OEPA and the US EPA Regional Administrator. The plan's revision was approved in July of 2006. See attached contingency plan cover and revised notifications page. USEC considers this issue closed.

Your letter also addresses the observation of chemical containers that had been excessed by USEC, but were still in storage. Your letter suggests we develop a procedure for identifying and managing materials that are no longer needed. USEC does have a procedure for the preparation of excess material which references USEC's current XP2-EW-WM1032 Waste Generation procedure. The procedure gives guidance to all generators, as a waste minimization effort, to contact Waste Management when excessing chemicals for evaluation of use elsewhere on site prior to initiating a Request for Disposal (RFD). After review of the procedure, it was determined for proper communication, the group responsible for the distribution of chemicals should have specific guidance included in their responsibility section of the procedure. The procedure has been revised to reflect this change and will become effective on July 24, 2007.


United States Enrichment Corporation  
Portsmouth Gaseous Diffusion Plant, P.O. Box 628, Piketon, OH 45661  
Telephone 740-897-2331 Fax 740-897-2909 <http://www.usec.com>



Mr. Walt Francis  
July 19, 2007  
Page 2 of 2

If you have any questions regarding this letter, please contact Gary Coriell of my staff at (740) 897-2260.

Sincerely,



Robert W. Jordan  
General Manager

RWJ:GDC:sj

Attachment

cc/att: Jim Anzelmo  
Melody Stewart, OEPA-SDO  
Steve Toelle, USEC-HQ  
Records Management/ESHR-RC  
File – POEF-360-07-075

# PORTSMOUTH RCRA CONTINGENCY PLAN

Approved: *Samela J. Potter*  
Environmental Compliance/Waste Management &  
Industrial Safety Manager

July 25, 2006

UNITED STATES ENRICHMENT CORPORATION  
Portsmouth Gaseous Diffusion Plant  
P.O. Box 628 Piketon, Ohio 45661

**NOTIFICATIONS (continued)**

4. If the Contingency Plan is implemented, the PSS must note in the operating record the time, date, and details of the incident, which required the plan implementation. This written report must be submitted within 15 days after the incident to the:

- US EPA Regional Administrator and;
- The Director of the OEPA

The report must include:

- A. Name, address, and telephone number of the owner or operator;
- B. Name, address and telephone number of the facility;
- C. Date, time and type of incident (e.g., fire, explosion);
- D. Name and quantity of material(s) involved;
- E. The extent of injuries, if any;
- F. An assessment of actual or potential hazards to human health or the environment where this is applicable; and
- G. Estimated quantity and disposition of recovered material that resulted from the incident.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

MAR 15 2005

DE-9J

REPLY TO THE ATTENTION OF:

Mr. Greg Fout  
Manager  
Waste Management/Environmental Compliance/Industrial Safety  
United States Enrichment Corporation  
Portsmouth Gaseous Diffusion Plant  
P.O. Box 628  
Piketon, Ohio 45661

Re: RCRA Compliance Inspection  
United States Enrichment Corporation  
Piketon, Ohio  
OHD 987 054 723

Dear Mr. Fout:

On November 5, 2004, the United States Environmental Protection Agency (U.S. EPA) issued the United States Enrichment Corporation a Notice of Violation (NOV) which identified violations of the Ohio Administrative Code and the United States Code of Federal Regulations at the Piketon, Ohio facility.

U.S. EPA received your December 6, 2004, response to the November 5, 2004 NOV.

This letter is to inform you that U.S. EPA has reviewed your response and determined that additional enforcement action need not be taken at this time.

This position does not limit your liability for compliance with all the applicable provisions of the Resource Conservation and Recovery Act, as amended. Your hazardous waste management operations will continue to be evaluated by U.S. EPA and the Ohio Environmental Protection Agency (OEPA) in the future.

If you have any questions regarding this letter, please contact Walt Francis of my staff at (312) 353-4921.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Paul Little".

Paul Little, Chief  
Compliance Section #2  
Enforcement and Compliance Assurance Branch  
Waste, Pesticides and Toxics Division

cc: Melody Stewart, OEPA - Southeast District Office



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF

AUG 29 2005

DE-9J

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Greg Fout  
Manager  
Waste Management/Environmental Compliance/Industrial Safety  
United States Enrichment Corporation  
Portsmouth Gaseous Diffusion Plant  
P.O. Box 628  
Piketon, Ohio 45661

Re: Notice of Violation  
RCRA Compliance Inspection  
United States Enrichment Corporation  
Portsmouth Gaseous Diffusion Plant  
Piketon, Ohio  
OHD 987 054 723

Dear Mr. Fout:

On March 7<sup>th</sup> and 8<sup>th</sup>, 2005, representatives of the United States Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA) inspected the United States Enrichment Corporation (USEC) facility located near Piketon, Ohio. The purpose of the inspection was to evaluate USEC's compliance with certain provisions of the Resource Conservation and Recovery Act (RCRA); specifically, those regulations related to the generation, treatment and storage of hazardous waste. Please find enclosed a copy of the inspection checklists for your reference.

Based on information provided by USEC personnel, review of records, and personal observations by the inspectors, U.S. EPA finds that USEC is in violation of the following requirement of the Ohio Administrative Code (OAC) and the United States Code of Federal Regulations (CFR):

1. A generator may accumulate as much as fifty-five gallons of hazardous waste or one quart of acutely hazardous waste listed in paragraph E of rule 3745-51-33 of the OAC in containers at or near any point of generation where wastes initially accumulate, which is under the control of the operator of the process generating the waste, without a permit and without complying with the requirements of OAC Rule 3745-52-34(A). See, OAC §

3745-52-34 (C)(1) [40 CFR § 262.34(c)(1)].

During the inspection of Building X-330 near L51, the inspectors observed four poly-bottles that were in a satellite accumulation area next to the less than 90 day area. USEC personnel told the inspectors that the waste had come down from an upstairs satellite accumulation area (SAA) #EE57, and was to be taken to Building X-705. The SAA containers of hazardous waste that the inspectors observed in Building X-330 were not at or near the point of generation or under the control of the operator and should have been placed in a less than 90 day container accumulation area. Therefore, USEC failed to comply with OAC Rule 3745-52-34(C)(1) [40 C.F.R. § 262.34(c)(1)], and was therefore required to comply with the requirements of OAC Rule 3745-52-34(A) [40 C.F.R. § 262.34(a)].

2. A small quantity handler of universal waste must label or mark the universal waste to identify the type of universal waste as specified in this rule. See, OAC § 3745-273-14(E) [40 CFR § 273.14(e)]. In addition, a small quantity handler of universal waste may accumulate universal waste for no longer than one year from the date the universal waste is generated, or received from another handler, unless the requirements of paragraph (B) of this rule are met. See, § OAC 3745-273-15(A) [40 CFR § 273.15(a)]. Finally, a small quantity handler of universal waste who accumulates universal waste must be able to demonstrate the length of time that the universal waste has been accumulated from the date it becomes a waste or is received. See OAC § 3745-273-15(C)(1) through (6) [40 CFR § 279.15(c)(1) through (6)].

During the inspection of Building XT-847, the inspectors observed four plywood boxes of used fluorescent lamps and 38 fiberboard containers of used lamps none of which bore the words "Used Lamps" or accumulation dates. Also, in Buildings X-330, X-710, and X-720 the inspectors observed used fluorescent lamps that were not labeled or dated. U.S. EPA recommends that you appropriately label your containers of used fluorescent lamps and use one of the methods available to document the accumulation dates. See OAC § 3745-273-15(C)(1) through (6) [40 CFR § 279.15(c)(1) through (6)].

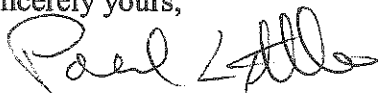
In addition, during the inspection of the Garage Building X-750, the inspectors observed a blue pickup truck that appeared to have had an engine fire. The lead acid battery appeared to have melted in the engine compartment. It did not appear that the melted lead acid battery could be sent off-site to be recycled, and a waste evaluation should have been completed.

Under Section 3008(a) of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6928(a), U.S. EPA may issue an order assessing a civil penalty for any past or current violation and requiring compliance immediately or within a specified time period. Although this letter is not such an order, we request that you submit a response in writing to this office no later than thirty (30) days after receipt of this letter documenting the actions, if any, which have been taken since the inspection to establish compliance with the above requirements.

You should submit your response to Walt Francis, United States Environmental Protection Agency, Region 5, 77 West Jackson Boulevard, DE-9J, Chicago, Illinois 60604. You should also submit a copy of your response to Melody Stewart at the OEPA Southeast District Office, 2195 Front Street, Logan, Ohio 45138.

If you have any questions regarding this letter, please contact Walt Francis of my staff at (312) 353-4921.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Paul Little".

Paul Little, Chief  
Compliance Section # 2  
Enforcement and Compliance Assurance Branch  
Waste, Pesticides and Toxics Division

Enclosure

cc: Melody Stewart, OEPA-Southeast District Office

**U.S. EPA REGION 5  
WASTE, PESTICIDES AND TOXICS DIVISION  
ENFORCEMENT AND COMPLIANCE ASSURANCE BRANCH**

**RCRA COMPLIANCE EVALUATION INSPECTION REPORT**

**FACILITY NAME:** United States Enrichment Corporation

**FACILITY U.S. EPA ID NO.:** OHD 987 054 723

**FACILITY TYPE:** Large Quantity Generator

**FACILITY ADDRESS:** 3930 US Route 23 South  
Piketon, Ohio 45661

**FACILITY REPRESENTATIVE:** Gary Coriell, Environmental Engineer  
Paul McGoren, Environmental Engineer  
Carolyn Hamilton, Environmental and Waste  
Management Section Manager

**OEPA REPRESENTATIVE:** Melody Stewart  
Hazardous Waste Inspector  
Ohio Environmental Protection Agency  
Southeast District Office  
2195 Front Street  
Logan, Ohio 43138  
(740) 380-5256  
Melody.Stewart@epa.state.oh.us

**U.S. EPA REPRESENTATIVE:** Walt Francis  
Environmental Scientist  
U.S. EPA, Region 5  
Waste, Pesticides and Toxics Division  
Enforcement and Compliance Assurance Branch  
Compliance Section 2  
(312) 353-4921  
Francis.Walt@epa.gov

**DATE(S) OF INSPECTION:** March 7<sup>th</sup> and 8<sup>th</sup>, 2005

**SIC CODE:** 2819 - Industrial Inorganic Chemicals, Not Elsewhere  
Classified

**NAICS CODE:** 325188 - All Other Basic Inorganic Chemical  
Manufacturing



## **INTRODUCTION -**

### **PROCESS DESCRIPTION**

Historically, the main function of the U.S. DOE-Portsmouth (Portsmouth) facility was to enrich uranium for military use (nuclear submarines) and commercial reactors through a gaseous diffusion process. This involved the separation of U235 from the U238 isotope in uranium hexafluoride (UF<sub>6</sub>) feedstock which contains 0.711% U235. The Plant had produced enriched uranium continuously since September 1954. In 1993, the uranium enrichment facilities at the plant were leased to the United States Enrichment Corporation (USEC). U.S. DOE retained ownership of the ongoing site environmental restoration program as well as two permitted hazardous waste storage facilities.

Numerous other activities associated with the plant's main function also occur on-site and are leased by USEC. These include decontamination of equipment and uranium recovery (X-705 Bldg.); chemical cleaning of equipment (X-700); maintenance crafts, including paint, sheet metal, machining, valve, compressor, welding, electrical, motor rewind, metallurgy, instruments and carpentry (X-720); laboratory services (X-710); wastewater treatment (X-6619); water treatment (X-611); chromium removal (X-616); uranium operations, fluorine generation and cylinder handling (X-344); photo and printing lab (X-100); vehicle repair (X-750); coal pile runoff treatment (X-621); and electrical and utilities system.

Hazardous waste and mixed waste which was generated from the gaseous diffusion and associated processes leased by USEC is stored in U.S. DOE owned and permitted storage facilities. Waste generated by U.S. DOE and Bechtel Jacobs from the environmental restoration is also stored in these facilities. USEC also generates non mixed radioactive hazardous waste which is shipped out of Building XT-847. USEC ceased the enrichment process in May 2001.

### **WASTE MANAGEMENT, GENERATION AND AMOUNT**

Uranium contaminated hazardous wastes (mixed waste) which were/are generated by USEC and U.S. DOE are stored on-site in U.S. DOE-owned and operated hazardous waste container storage facilities for longer than one year. Historically, this was due to the limited number of TSDs in the U.S. which could accept mixed waste, and a May 1991 U.S. DOE moratorium on off-site waste shipment. A large percentage of the waste generated at Portsmouth is U.S. DOE-generated mixed waste from the site-wide cleanup activities. This is also stored in U.S. DOE-owned storage areas. During the past year, numerous shipments of hazardous waste were manifested off-site by both U.S. DOE and USEC. This is due to an increase in treatment capacity at off-site commercial treatment facilities and U.S. DOE treatment facilities, the lifting of the moratorium, and the execution of the site treatment plans for U.S. DOE and USEC. U.S. DOE sends some waste off-site (to U.S. DOE Oakridge) for treatment prior to final disposal. Treatment residuals

are returned to U.S. DOE - Portsmouth for storage in the interim prior to their final disposal.

USEC generated hazardous wastes are shipped to Permafix in Florida. In addition, a wide variety of radioactive and other nonhazardous wastes are generated as a result of the above processes.

#### **INSPECTION:**

U.S. EPA representative Walt Francis and OEPA representative, Melody Stewart arrived at the facility at approximately 7:50 am. The inspection team contacted Gary Coriell from the East USEC Security Entrance. At the USEC East Security Gate, the inspectors met Mr. Gary Coriell from USEC. The inspection team and Mr. Coriell then returned to the conference room in Building XT-947 and informed the USEC representatives of the nature, scope, and procedures of the inspection. The inspection was conducted by OEPA and U.S. EPA personnel as a Federal lead inspection. The inspection was conducted to determine the facility's compliance under the Resource, Conservation and Recovery Act (RCRA) and the Ohio Administrative Code (OAC). The facility representatives provided the team with a brief overview of the facility. The on-site USEC personnel allowed the inspectors access to the facility to conduct the inspection.

#### **WALK THROUGH:**

The walkthrough began at the less than 90 day accumulation area at Column L-51 in Building X-330. The less than 90 day area did not have any waste containers. However, four poly-bottles were observed in a Satellite Accumulation Area (SAA) next to the less than 90 day area. USEC personnel told the inspectors that the waste had come down from an upstairs SAA (#EE57), and was destined for Building X-705. We then went over to the less than 90 day area at L-49, no containers of hazardous waste were observed in this area. We then went over to the SAA at Column EE-35 in Building X-330 which was a container of solvent contaminated rags. Also, in Building X-330, the inspectors observed seven pallets of used fluorescent lamps which did not have accumulation dates. We then went over to a less than 90 day accumulation area in Building X-333, at Column JA32. No waste was being accumulated in this area. Also in Building X-333, we observed the SAA at JA36, which contained nine full polybottles (each polybottle contains 2.5 gallons of waste). In addition, we inspected area S50 in Building X-333, which did not contain any hazardous waste. In Building X-326, we inspected a SAA at H39, which contained a drum of lead pieces. Also, in Building X-326, the inspectors observed six lead acid batteries on the floor. In addition, the inspectors went over to a less than 90 day area at C-48, which was empty. Also, in Building X-326, the inspectors observed the less than 90 day area at T-80 which contained a drum of waste acetone which was dated 7/26/04. USEC personnel then took the inspectors over to Building XT-847, Areas C-2 (no containers in storage), N-1 (no containers in storage), and the fluorescent bulb screening area which contained an SAA for the accumulation of broken fluorescent lamps. The inspectors then observed four plywood boxes of used lamps and 8 fibre drums of used lamps that did not have the words "Used Lamps" or an accumulation date. The inspectors also observed an additional 30 cardboard fibre drums with no labels or dates in this area. We then toured areas S3-2, S4, S2-2, S 5-2 in the XT-847 Building. We then toured several less than 90 day and SAAs in Buildings X-720. Specifically, area MS, Radio and Gas Lab, Radio Room, Columns L-18, Clean Room, Column L-15, K-12, H-6, a fluorescent lamp

accumulation area, blasting media area F5, Paint Shop, and the Paint Shop less than 90 day accumulation area, and the X-720 South Dock SAA. We then toured Building X-750, where the inspectors observed several forklift trucks with lead acid batteries. The Building X-750 Garage less than 90 day area contained a 5 gallon container of used aerosol cans and a container of used rags and solvents from the garage. Also, the inspectors observed a pallet of used lead acid batteries. The inspectors also observed a blue pickup in this area that appears to have had an engine fire. The lead acid battery appeared to be melted in the engine compartment. We then toured Building X-700, where the inspectors observed a less-than 90 day tanker truck utilized for the accumulation of Building X-700 basement sump groundwater. Also, the inspectors observed an SAA at F1 used for spent sand blast media. Also, the inspectors observed a 5 gallon container utilized for broken fluorescent lamps which was dated of 1/6/05. The inspectors also observed two 55-gallon containers of soil, cloth and grit from a diesel fuel spill and the drums were dated 1/26/05. USEC personnel told the inspectors that Bechtel Jacobs personnel had been contacted to pick up this material. We then went out to the transformer yard where the inspectors observed a rusty 55-gallon container of a liquid and rags. USEC personnel did not know how long the container had been at this location. We then went over to the Butler Building and then on to the X-344A less than 90 day area, which did not have any waste.

The walkthrough continued at Building X-710 with Mr. Steve Wamsley, rooms 103, 212, 213, 263, 281, 144 and the loading dock. On the loading dock, the inspectors observed twelve boxes of used fluorescent lamps that were not labeled and did not have an accumulation date.

#### **RECORDS REVIEW:**

A record review was conducted. The inspection team requested to review hazardous waste manifests, land disposal restriction forms, mixed-waste shipment documentation, universal waste shipping records, personnel training information, weekly inspection logs and the latest contingency plan. The inspectors reviewed hazardous waste manifests since the date of the last inspection. Personnel training records were reviewed. The inspectors reviewed the 2001 Contingency Plan. Also, Inspector Francis reviewed the requirements of RCRA Section 6002 on Federal facilities and the procuring recycled content products.

#### **CLOSING CONFERENCE:**

The inspectors conducted a closing conference. Inspector Francis told the facility that they would receive a letter from U.S. EPA regarding the inspection. Mr. Coriell agreed to follow-up on the RCRA 6002 information, and the transformer yard 55-gallon container.

#### **ATTACHMENTS:**

Inspection Checklists.

# RCRA HAZARDOUS WASTE GENERATOR INSPECTION CHECKLIST

Company: United States Enrichment Corporation EPA ID#: OHD 987 054 723

Street: 3930 U.S. Route 23 South City: Piketon

County: Pike State: Ohio Zip: 45661

Mailing Address: PO Box 628, Piketon, Ohio 45661  
(If different from above)

Telephone: 740-897-5303 Fax #: 740-897-0700

Owner/  
Operator: United States Enrichment Corporation  
(If different from above)

Street: Same as above

City: \_\_\_\_\_ State: Ohio Zip: \_\_\_\_\_

Inspection Date(s): 3/7/05 - 3/9/05 Time(s): 8:00 am -

Inspection Announced? ☐ Yes ☒ NO If so, how much advance notice given? \_\_\_\_\_

	Name	Affiliation	Telephone
Inspectors:	Melody Stewart	OEPA	740-380-5256
	Walt Francis	U.S. EPA	312-353-4921
Facility Representative:	Gary Coriell	USEC	740-897-2260
	Paul McGoron	USEC	740-897-2256
	Carolyn Hamilton	USEC	740-897-4027

Complete All Other Applicable Checklists	
Generator Classification	Waste Management Activity
<input type="checkbox"/> Conditionally Exempt SQG (CESQG)	<input checked="" type="checkbox"/> Containers
<input type="checkbox"/> Small Quantity Generator (SQG)	<input type="checkbox"/> Tank(s)
<input checked="" type="checkbox"/> Large Quantity Generator (LQG)	<input type="checkbox"/> Land Disposal Requirements (LDR)
<input type="checkbox"/> No Generation	<input type="checkbox"/> Used Oil
	<input checked="" type="checkbox"/> Universal Waste
	<input type="checkbox"/> Other

CESQG: < 100 Kg. (approximately 25-30 gallons) of waste in a calendar month

SQG: Between 100 and 1,000 Kg. (about 25 to under 300 gallons) of waste in a calendar month

LQG: >1,000 Kg. (~300 gallons) of waste in a calendar month or > 1 Kg. of acutely hazardous waste in a calendar month

NOTE: To convert from gallons to pounds: Amount in gallons x Specific Gravity x 8.345 = Amounts in pounds

**COMPLETE AND ATTACH A PROCESS DESCRIPTION SUMMARY**

## POLLUTION PREVENTION

Note to the Inspector: This checklist has been developed to help the division in gathering general information about the pollution prevention (P2) practices that the company may have initiated or attempted to initiate. The checklist is also used to:

- Facilitate P2 discussions;
- Identify barriers to P2;
- Define the P2 universe;
- Identify the need for future P2 initiatives;
- Identify partnership opportunities; and
- Link companies with better P2 resources.

As a prelude to completing this checklist the inspector should use the following list of questions as a way to initiate a dialogue concerning P2:

1. Have you tried to reduce the volume of waste (hazardous and nonhazardous) that you generate?
2. What is the largest waste stream that you generate?
3. How important would it be to you to eliminate that waste stream?
4. Does your company understand the reduced regulatory burden and cost saving benefits that eliminating or reducing a waste stream can have?
5. Could you use better housekeeping practices to reduce the amount of waste that you generate?

If the company responds with one of the answers below, the appropriate box should be checked. If the company's response does not correspond to one of the options below, please record the answer in the space provided or in the remarks section.

1. Has the company undertaken any P2 activities to reduce the amount of hazardous waste generated? Yes ☒ No \_\_\_ N/A \_\_\_ RMK# \_\_\_

a. *If so*, what has the company done to minimize hazardous waste generation?

- ☐ A change in the process resulting in less waste.
- ☐ A change in the product resulting in less waste.
- ☐ Use of fewer and less toxic hazardous raw materials.
- ☐ Better operations/improved housekeeping.
- ☐ On-site recycling/reuse of hazardous materials.
- ☒ Sending waste off-site for recycling/reuse.
- ☐ Other activities (specify): \_\_\_\_\_

b. *If so*, what hazardous wastes have been addressed?

- ☐ Solvents
- ☐ Paint related wastes

- ☐ Industrial process wastes (sludges, slags, contaminated waste waters, etc)
- ☐ Contaminated oils/hydraulic fluids
- ☐ Off-spec chemicals
- ☒ Fluorescent light bulbs
- ☒ Used batteries
- ☐ Shop rags
- ☐ Other (specify): \_\_\_\_\_

c. **If not**, why hasn't the company considered P2?

- ☐ The company just never thought about it
- ☐ Lack of information about practical alternatives
- ☐ Lack of capital to make process changes
- ☐ Lack of internal management support
- ☐ The company does not generate enough hazardous waste to consider P2
- ☐ Other reason given (specify): \_\_\_\_\_

2. Does the company plan to do P2 activities in the future? Yes ☒ No ☐ N/A ☐ RMK# ☐
3. Would the company be interested in receiving additional information from Ohio EPA about P2? Yes ☒ No ☐ N/A ☐ RMK# ☐
4. Did you give the company information about P2 during the inspection? Yes ☒ No ☐ N/A ☐ RMK# ☐
5. Would the company like a P2 assessment? Yes ☐ No ☒ N/A ☐ RMK# ☐

**If the company would like a P2 assessment done at their facility, the inspector must give the company representative a copy of the Pollution Prevention Assessments for Hazardous Waste Generators document and discuss it with them.**

6. If the company does not want a P2 assessment, why not?

*Company has problem in place.*

**REMARKS**

## LARGE QUANTITY GENERATOR REQUIREMENTS

### GENERAL REQUIREMENTS

1. Have all wastes generated at the facility been adequately evaluated? [3745-52-11] Yes ☒ No ☐ N/A ☐ RMK# ☐
2. Has the generator obtained an identification number? [3745-52-12] Yes ☒ No ☐ N/A ☐ RMK# ☐
3. Were annual reports filed with Ohio EPA on or before March 1<sup>st</sup>? [3745-52-41] Yes ☒ No ☐ N/A ☐ RMK# ☐

### WASTE IMPORT/EXPORT REQUIREMENTS

4. Does the generator import or export hazardous waste? If so: Yes ☐ No ☒ N/A ☐ RMK# ☐
- a. Has the generator notified U.S. EPA of export/import activity? [3745-52-53] Yes ☐ No ☐ N/A ☒ RMK# ☐
- b. Has the generator complied with special manifest requirements? [3745-52-54] Yes ☐ No ☐ N/A ☒ RMK# ☐
- c. For manifests that have not been returned to the generator: has an exception report been filed? [3745-52-55] Yes ☐ No ☐ N/A ☒ RMK# ☐
- d. Has an annual report been submitted to U.S. EPA? [3745-52-56] Yes ☐ No ☐ N/A ☒ RMK# ☐
- e. Are export related documents being maintained on-site? [3745-52-57] Yes ☐ No ☐ N/A ☒ RMK# ☐

### GENERATOR CLOSURE REQUIREMENTS

5. Has the generator closed any <90-day accumulation unit(s) since the date of the last inspection? If so: Yes ☐ No ☒ N/A ☐ RMK# ☐
- a. Describe the unit(s) which the generator has closed.
- b. Does closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)] Yes ☐ No ☐ N/A ☒ RMK# ☐



- c. Please provide a description of the documentation provided by the generator to demonstrate that closure was completed in accordance with the closure performance standards.

**NOTE:** *If the generator has closed a <90-day tank, closure must also be completed in accordance with OAC 3745-66-97 (except for paragraph C of this rule). [3745-52-34]*

**REMARKS**

## MANIFEST REQUIREMENTS

You must start this part of the inspection by telling the company representative about the certification statement on the hazardous waste manifest using the following question and statement:

Are you aware of what the statement that you sign on the manifest says? Yes ☒ No ☐

If the answer is no, show them what the statement says using a signed manifest.

**NOTE:** *While the statement is a certification that a P2 strategy is in place, signing the statement does not establish any legal obligations with which the company must comply. In other words, there is no violation of the hazardous waste rules if they sign the manifest and they don't have a program in place.*

1. Have all hazardous wastes shipped off-site been accompanied by a manifest? (U.S. EPA Form 8700-22) [3745-52-20(A)] Yes ☒ No ☐ N/A ☐ RMK# ☐

2. Have items (1) through (20) of each manifest been completed? [3745-52-20(A)] Yes ☒ No ☐ N/A ☐ RMK# ☐

**NOTE:** *U.S. EPA Form 8700-22(A) (the continuation form) may be needed in addition to Form 8700-22. In these situations items (21) through (35) must also be completed. [3745-52-20(A)]*

3. Does each manifest designate at least one permitted disposal facility? [3745-52-20(B)] Yes ☒ No ☐ N/A ☐ RMK# ☐

**NOTE:** *The generator may designate on the manifest one alternate facility to handle the waste in the event of an emergency which prevents the delivery of waste to the primary designated facility. [3745-52-20(C)].*

4. Since the date of the last inspection, has the transporter been unable to deliver a shipment of hazardous waste to the designated facility? If so: Yes ☐ No ☒ N/A ☐ RMK# ☐

a. Did the generator designate an alternate TSD facility or give the transporter instructions to return the waste? [3745-52-20(D)] Yes ☐ No ☐ N/A ☒ RMK# ☐

5. Have the manifests been signed by the generator and initial transporter? [3745-52-23(A)(1)(2)] Yes ☒ No ☐ N/A ☐ RMK# ☐

6. Has the generator received a return copy of each completed manifest within 35 days of being accepted by the transporter? If not: Yes ☒ No ☐ N/A ☐ RMK# ☐

a. Did the generator contact the transporter and/or TSD facility to check on the status of the waste? [3745-52-42(A)] Yes ☐ No ☐ N/A ☒ RMK# ☐

b. If the manifest was not received within 45 days, did the generator file an exception report with Ohio EPA? [3745-52-42(A)(2)]

Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_

7. Are signed copies of all manifests and any exception reports being retained for at least three years? [3745-52-40]

Yes ☒ No ☐ N/A \_\_\_ RMK# \_\_\_

#### REMARKS

## PERSONNEL TRAINING

1. Does the generator keep records required by 3745-65-16(D) including:
- a. Job titles, as they relate to hazardous waste management, and the name of each employee filling each job? Yes ☒ No ☐ N/A ☐ RMK# ☐
  - b. Job descriptions, including requisite skill, education, or other qualifications, and duties of facility personnel assigned to each position? Yes ☒ No ☐ N/A ☐ RMK# ☐
  - c. Type and amount of both introductory and continuing training to be given to each person filling a position? Yes ☒ No ☐ N/A ☐ RMK# ☐
  - d. Documentation that personnel have completed the training or job experience required under 3745-65-16(A)(B) & (C)? Yes ☒ No ☐ N/A ☐ RMK# ☐

**NOTE:** *If the facility's business practices precludes written job titles/descriptions, they should be able to identify, by name, all personnel who are involved with hazardous waste management, and the training/experience that they receive initially and annually. Item 9 on the next page can be used to document that all necessary employees have been trained.*

2. Does the generator have a training program which teaches facility personnel hazardous waste management procedures (including, but not limited to, contingency plan implementation) relevant to their positions? [3745-65-16(A)(2)] Yes ☒ No ☐ N/A ☐ RMK# ☐
3. Does the personnel training program include instruction in the following areas to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with: [3745-65-16(A)(3)]
- a. Emergency procedures? Yes ☒ No ☐ N/A ☐ RMK# ☐
  - b. Emergency equipment? Yes ☒ No ☐ N/A ☐ RMK# ☐
  - c. Emergency systems? Yes ☒ No ☐ N/A ☐ RMK# ☐
4. Does emergency training described in 3(a), (b) and (c) above include, *where applicable*: [3745-65-16(A)(3)(a-f)]
- a. Procedures for using, inspecting, repairing and replacing emergency and monitoring equipment? Yes ☒ No ☐ N/A ☐ RMK# ☐

- b. Key parameters for automatic waste feed cut-off systems? Yes ☒ No ☐ N/A ☐ RMK# ☐
- c. Communication or alarm system? Yes ☒ No ☐ N/A ☐ RMK# ☐
- d. Response procedures for fire/explosions? Yes ☒ No ☐ N/A ☐ RMK# ☐
- e. Response to groundwater contamination incidents? Yes ☒ No ☐ N/A ☐ RMK# ☐
- f. Shutdown procedures? Yes ☒ No ☐ N/A ☐ RMK# ☐
5. Is the personnel training program directed by a person trained in hazardous waste management procedures? [3745-65-16(A)(2)] *USEC Training only.* Yes ☒ No ☐ N/A ☐ RMK# ☐
6. Do new employees receive training within six months after the date of hire (or assignment to a new position)? [3745-65-16(B)] Yes ☒ No ☐ N/A ☐ RMK# ☐
7. Does the generator provide annual refresher training to employees? [3745-65-16(C)] Yes ☒ No ☐ N/A ☐ RMK# ☐
8. Are training records for current personnel kept until closure of the facility? [3745-65-16(E)] Yes ☒ No ☐ N/A ☐ RMK# ☐
9. Are training records for former employees kept for at least three years from the date the employee last worked at the facility? [3745-65-16(E)] Yes ☒ No ☐ N/A ☐ RMK# ☐
10. **Optional:** The following section can be used by the inspector to document that all personnel who are involved with hazardous waste management have been trained. The employees who need training (written and/or on-the-job) may include the following: environmental coordinators, drum handlers, emergency coordinators, personnel who conduct hazardous waste inspections, emergency response teams, personnel who prepare manifests, etc.

<u>Job Performed</u>	<u>Name of Employee</u>	<u>Date(s) Trained</u>
<i>WASTE mgmt program</i>	<i>Sue Fulk</i>	<i>1/20/05</i>

**REMARKS**

## CONTINGENCY PLAN

*August 8th,  
2001*

1. Does the generator have a contingency plan which describes the following: [3745-65-52(A) through (F)]
- a. Actions to be taken in response to fires, explosions or any unplanned release of hazardous waste? Yes ☒ No ☐ N/A ☐ RMK# ☐
- b. Arrangements/agreements with emergency authorities? [3745-65-37] Yes ☒ No ☐ N/A ☐ RMK# ☐
- c. A current list of names, addresses and telephone numbers (office and home) of all persons qualified to act as emergency coordinator? Yes ☒ No ☐ N/A ☐ RMK# ☐
- d. A list of all emergency equipment, including: location, physical description and brief outline of capabilities? Yes ☒ No ☐ N/A ☐ RMK# ☐
- e. An evacuation plan for facility personnel where there is a possibility that evacuation may be necessary? Yes ☒ No ☐ N/A ☐ RMK# ☐

**NOTE:** If the facility already has a "Spill Prevention, Control and Countermeasures Plan" under 40 CFR Part 112 or 40 CFR Part 1510, or some other emergency plan, the facility can amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with OAC requirements. [3745-65-52(B)]

2. Is the plan designed to minimize hazards to human health or the environment from fires, explosions or any unplanned release of hazardous waste? [3745-65-51(A)] Yes ☒ No ☐ N/A ☐ RMK# ☐
3. Is a copy of the plan (plus revisions) kept on-site and been given to all emergency authorities that may be requested to provide emergency services? [3745-65-53(A)(B)] Yes ☒ No ☐ N/A ☐ RMK# ☐
4. Has the generator revised the plan in response to rule changes, facility, equipment and personnel changes, failure to the plan or as required by the Director? [3745-65-54] Yes ☒ No ☐ N/A ☐ RMK# ☐

## EMERGENCY COORDINATOR

5. Is an emergency coordinator available at all times (on-site or on-call)? [3745-65-55] Yes ☒ No ☐ N/A ☐ RMK# ☐  
*Murray Reddon - EOC*

**NOTE:** The emergency coordinator shall be thoroughly familiar with: (a) all aspects of the facility's contingency plan; (b) all operations and activities at the facility; (c) the location and characteristics of waste handled; (d) the location of all records within the facility; (e) facility layout; and (f) shall have the authority to commit the resources needed to implement provisions of the contingency plan

6. Has there been a fire, explosion or release of hazardous waste or hazardous waste constituents since the last inspection? If so: Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_
- a. Was the contingency plan implemented? [3745-65-51(B)] Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_
- b. Did the facility follow the emergency procedures in 3745-65-56(A) through (H)? Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_
- c. Did the facility submit a report to the Director within 15 days of the incident as required by 3745-65-56(J)? Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_

**NOTE:** OAC 3745-65-51(B) requires that the contingency plan be implemented immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents, which could threaten human health and the environment.

#### REMARKS

## PREPAREDNESS AND PREVENTION [3745-52-34(A)(4)]

1. Is the facility operated to minimize the possibility of fire, explosion, or any unplanned release of hazardous waste? [3745-65-31] Yes ☒ No ☐ N/A ☐ RMK# ☐
2. Does the generator have the following equipment at the facility, if it is required due to actual hazards associated with the waste: [3745-65-32(A)(B)(C)(D)]
- a. Internal alarm system? Yes ☒ No ☐ N/A ☐ RMK# ☐
- b. Emergency communication device? Yes ☒ No ☐ N/A ☐ RMK# ☐
- c. Portable fire control, spill control and decon equipment? Yes ☒ No ☐ N/A ☐ RMK# ☐
- d. Water of adequate volume/pressure? Yes ☒ No ☐ N/A ☐ RMK# ☐
3. Is emergency equipment tested (inspected) as necessary to ensure its proper operation in time of emergency? [3745-65-33] Yes ☒ No ☐ N/A ☐ RMK# ☐
- ④ Are emergency equipment tests (inspections) recorded in a log or summary: [3745-65-33] Yes ☒ No ☐ N/A ☐ RMK# ☐
5. Do personnel have immediate access to a communication device when handling hazardous waste (*unless the device is not required under 3745-65-32*)? [3745-65-34] Yes ☒ No ☐ N/A ☐ RMK# ☐
6. Is adequate aisle space provided for unobstructed movement of emergency or spill control equipment? [3745-65-35] Yes ☒ No ☐ N/A ☐ RMK# ☐
7. Has the generator attempted to familiarize emergency authorities with possible hazards and facility layout? [3745-65-37(A)] Yes ☒ No ☐ N/A ☐ RMK# ☐
- a. Where authorities have declined to enter into arrangements/agreements, has the generator documented such a refusal? [3745-65-37(B)] Yes ☐ No ☐ N/A ☒ RMK# ☐

REMARKS



## GENERATOR ACCUMULATION

1. Has the generator accumulated hazardous wastes on-site in excess of 90 days without a permit or an extension from the director? [3745-52-34; ORC §3734.02(E)(F)] Yes ☐ No ☒ N/A ☐ RMK#

## SATELLITE ACCUMULATION AREA REQUIREMENTS [3745-52-34(C)(1)]

2. Does the generator ensure that satellite accumulation area(s):
- a. Are at or near a point of generation? Yes ☒ No ☒ N/A ☐ RMK# 1
  - b. Are under the control of the operator of the process generating the waste? Yes ☒ No ☒ N/A ☐ RMK# 1
  - c. Do not exceed a total of 55 gallons of hazardous waste? Yes ☒ No ☐ N/A ☐ RMK#
  - d. Do not exceed one quart of acutely hazardous waste at any one time? Yes ☒ No ☐ N/A ☐ RMK#
  - e. Containers are marked with the words "Hazardous Waste" or other words identifying the contents? Yes ☒ No ☐ N/A ☐ RMK#

**NOTE:** *The 55 gallon limit applies to the area itself, and not to each individual waste stream accumulated in the area. The inspector should refer to Ohio EPA's November 1994 Guidance on the Location of Satellite Accumulation Areas.*

3. Is the generator accumulating hazardous waste(s) in excess of the amounts listed in either 2(c) or 2(d)? If so: Yes ☐ No ☒ N/A ☐ RMK#
- a. Did the generator comply with 3745-52-34(A) or other applicable generator requirements within three days? Yes ☐ No ☐ N/A ☒ RMK#
  - b. Did the generator mark the container(s) holding excess with the accumulation date when the 55 gallon (one quart) limit was exceeded? Yes ☐ No ☐ N/A ☒ RMK#

## USE AND MANAGEMENT OF CONTAINERS

4. Has the generator marked containers with the words "Hazardous Waste?" [3745-52-34(A)(3)]. Yes ☒ No ☐ N/A ☐ RMK#

5. Is the accumulation date on each container? [3745-52-34(A)(2)] Yes ☒ No ☐ N/A ☐ RMK# ☐
6. Are hazardous wastes stored in containers which are:
- a. Closed (except when adding/removing wastes)? [3745-66-73(A)] Yes ☒ No ☐ N/A ☐ RMK# ☐
- b. In good condition? [3745-66-71] Yes ☒ No ☐ N/A ☐ RMK# ☐
- c. Compatible with wastes stored in them? [3745-66-72] Yes ☒ No ☐ N/A ☐ RMK# ☐
- d. Handled in a manner which prevents rupture/leakage? [3745-66-73(B)] Yes ☒ No ☐ N/A ☐ RMK# ☐
7. Is the container accumulation area(s) inspected weekly? [3745-66-74] (Note location in general information section of checklist) Yes ☒ No ☐ N/A ☐ RMK# ☐
- a. Are inspections recorded in a log or summary? [3745-66-74] Yes ☒ No ☐ N/A ☐ RMK# ☐
8. For ignitable and/or reactive hazardous waste(s):
- a. Are containers located at least 50 feet (15 meters) from the facility's property line? [3745-66-76] Yes ☒ No ☐ N/A ☐ RMK# ☐
- b. Are containers stored separately from other materials which may interact with the waste in a hazardous manner? [3745-66-77(C)] Yes ☒ No ☐ N/A ☐ RMK# ☐

#### PRE-TRANSPORT REQUIREMENTS

9. Does the generator package/label its hazardous waste in accordance with the applicable DOT regulations? [3745-52-30, -52-31 and -52-32(A)] Yes ☒ No ☐ N/A ☐ RMK# ☐
10. Does each container <110 gallons have a completed hazardous waste label? [3745-52-32(B)] Yes ☒ No ☐ N/A ☐ RMK# ☐
11. Before off-site transportation, does the generator placard or offer the appropriate DOT placards to the initial transporter? [3745-52-33] Yes ☒ No ☐ N/A ☐ RMK# ☐

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#### REMARKS

① Building K-330, LSI SAA from SAA #EES7, not placed in less-than 90 day area.

RCRA HAZARDOUS WASTE GENERATOR INSPECTION CHECKLIST

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## LDR REQUIREMENTS

1. Has the generator adequately evaluated all wastes to determine if they are restricted from land disposal? [3745-270-07(A)(1)] If so: Yes X No ☐ N/A \_\_\_\_ RMK# \_\_\_\_
- a. **For determinations based solely on knowledge of the waste:** Is supporting data retained on-site? [3745-270-07(A)(6)] Yes X No ☐ N/A \_\_\_\_ RMK# \_\_\_\_
- b. **For determinations based upon analytical testing:** Is waste analysis data retained on-site? [3745-270-07(A)(6)] Yes X No ☐ N/A \_\_\_\_ RMK# \_\_\_\_
2. Has the generator determined each Ohio EPA hazardous waste code applicable to the waste? [3745-270-07(A)(2), see Table 1] Yes X No ☐ N/A \_\_\_\_ RMK# \_\_\_\_
3. Has the generator determined the correct "treatability group(s)" (e.g., wastewater, non-wastewater, etc.)? [3745-270-07(A), Table 1] Yes X No ☐ N/A \_\_\_\_ RMK# \_\_\_\_
4. Does the generator generate a characteristic hazardous waste? If so: Yes X No \_\_\_\_ N/A \_\_\_\_ RMK# \_\_\_\_
- a. Have all underlying hazardous constituents (UHCs) been identified? [3745-270-09(A)] Yes X No ☐ N/A \_\_\_\_ RMK# \_\_\_\_
- NOTE:** *If the waste is D001 non-wastewater treated by CMBST, RORGS, POLYM in Table 1 of Rule 3745-270-42 UHCs do not need to be identified.*
5. Does the generator generate listed waste(s) which also exhibit hazardous characteristics? [3745-270-09] If so: Yes X No \_\_\_\_ N/A \_\_\_\_ RMK# \_\_\_\_
- a. Has the generator also identified the appropriate treatment standard(s) for the constituent(s) which cause the waste to exhibit a characteristic? [3745-270-09(A)] Yes X No ☐ N/A \_\_\_\_ RMK# \_\_\_\_
- NOTE:** *The generator is not required to identify the treatment standard for the characteristic if the listing covers the associated characteristic (e.g., a F019/D007 hazardous waste - F019 being listed due to chromium content and D007 being the characteristic waste code for chromium). [See OAC Rule 3745-270-09(B)]*
6. Has the generator **correctly** determined if restricted wastes meet or exceed treatment standards? [3745-270-07(A)(1)] Yes X No ☐ N/A \_\_\_\_ RMK# \_\_\_\_

7. Does the owner/operator ensure that restricted wastes or treatment residues are not diluted as a method of achieving/circumventing LDR treatment standards? [3745-270-03] Yes ☒ No ☐ N/A ☐ RMK# ☐

**NOTE:** *A generator may dilute a waste (that is hazardous only because it exhibits a characteristic) in a treatment system that discharges to waters of the State pursuant to an NPDES permit (§402 of CWA), that treats waste in a CWA equivalent treatment system, or that treats waste for the purposes of pre-treatment requirements under §307 of CWA, unless a method other than DEACT is specified or the waste is a D003 reactive cyanide wastewater or non-wastewater.[3745-270-03(B)]*

8. Is combustion of any of the wastes identified in the Appendix to Rule 3745-270-03 occurring without meeting one or more of the criteria under Rule 3745-270-03(C) upon generation or after treatment? [3745-270-03(C)] Yes ☐ No ☒ N/A ☐ RMK# ☐

9. Has the generator added iron to lead-containing hazardous waste in order to achieve LDR treatment standards for lead? [3745-270-03(D)] Yes ☐ No ☐ N/A ☒ RMK# ☐

10. Does the facility have a case-by-case extension to the effective date to land dispose of hazardous waste?[3745-270-05] If so: Yes ☐ No ☒ N/A ☐ RMK# ☐

a. The facility can dispose of hazardous waste in a on-site landfill or surface impoundment.[3745-270-05]

11. Does the facility have an extension to allow for a restricted waste to be land disposed?[3745-270-06] If so: Yes ☐ No ☒ N/A ☐ RMK# ☐

a. The facility can land dispose of the waste. [3745-270-06]

12. Does the facility treat wastes that are otherwise prohibited from land disposal, in a surface impoundment? If so: Yes ☐ No ☒ N/A ☐ RMK# ☐

- a. Has the facility complied with 3745-270-04? Yes ☐ No ☐ N/A ☒ RMK# ☐

### REMARKS

## NOTIFICATION AND CERTIFICATION REQUIREMENTS

12. If a generators' waste or contaminated soil does not meet the treatment standards, does the generator have the paperwork required in Column A of Table 1? [3745-270-07(A)(2)] Yes ☒ No ☐ N/A ☐ RMK# ☐
13. If a generators' waste or contaminated soil meets the treatment standard at the original point of generation, does the generator have the paperwork required in Column B of Table 1? [3745-270-07(A)(3)] Yes ☐ No ☐ N/A ☒ RMK# ☐
14. If a generators' waste is exempt (under 3745-270-05, 3745-270-06, national capacity or case-by-case variance, etc.) does the generator have the paperwork required in Column C of Table 1? [3745-270-07(A)(4)] Yes ☐ No ☐ N/A ☒ RMK# ☐
15. If a generator manages a lab pack containing hazardous waste using the alternative treatment standard in 3745-270-42, does the generator have the paperwork required in Column D of Table 1? [3745-270-07(A)(9)] Yes ☐ No ☐ N/A ☒ RMK# ☐
16. Does the generator produce a waste that is hazardous waste from the point of generation, but subsequently excluded from regulation under OAC 3745-51-02 through 3745-51-06? [3745-270-07(A)(7)] If so: Yes ☐ No ☒ N/A ☐ RMK# ☐
- a. Is a one-time notice placed in the facility's file stating such generation, subsequent exclusion or exemption, and disposition of the wastes? [3745-270-07(A)(7)] Yes ☐ No ☐ N/A ☒ RMK# ☐
- NOTE:** Examples include hazardous wastes discharged to a POTW or to a surface water under a NPDES permit. (See 270-07(A)(7))
17. Does the generator retain on-site a copy of all notices, certifications, demonstrations and waste analysis data for at least three years from the last shipment of waste sent off-site? [3745-270-07(A)(8)] Yes ☒ No ☐ N/A ☐ RMK# ☐

### **REMARKS**

## USED OIL INSPECTION CHECKLIST

Company: United States Enrichment Corporation EPA I.D.: OHD 987 054 723

Street: 3930 U.S. Route 23 South City: Piketon

County: Pike State: Ohio Zip: 45661

Mailing Address: \_\_\_\_\_  
(IF DIFFERENT FROM ABOVE)

Telephone: 740-897-2260 (Gary Coriell) Fax: \_\_\_\_\_

Owner/  
Operator: United States Enrichment Corporation  
(IF DIFFERENT FROM ABOVE)

Street: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Inspection Date(s): March 7 - 9, 2005 Time(s): 8:00 am - 5:00 pm

Inspection announced? Yes \_\_\_\_\_ No X If so, how much advance notice given? \_\_\_\_\_

	<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Inspectors:	<u>Walt Francis</u>	<u>U.S. EPA</u>	<u>312-353-4921</u>
	<u>Melody Stewart</u>	<u>Ohio EPA</u>	<u>740-380-5256</u>
Facility Rep(s):	<u>Gary Coriell</u>	<u>USEC</u>	<u>740-897-2260</u>
	<u>Carolyn Hamilton</u>	<u>USEC</u>	<u>740-897-4027</u>
	<u>Paul McGoron</u>	<u>USEC</u>	<u>740-897-2256</u>

### USED OIL MANAGEMENT ACTIVITY

<input checked="" type="checkbox"/> Generator/Collection Center/Aggregation	<input type="checkbox"/> Marketer
<input type="checkbox"/> Transporter/Transfer Facility	<input type="checkbox"/> Off-Spec Burner
<input type="checkbox"/> Processor/Re-Refiner	<input type="checkbox"/> Other (specify)
<input type="checkbox"/> No Generation	

## PROHIBITIONS

1. Is used oil being managed in a surface impoundment or waste pile? If so: Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_  
Is the surface impoundment or waste pile being regulated under OAC 3745-54 to 3745-57 or 3745-65 to 3745-69? [3745-279-12(A)] Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_
2. Is used oil being used as a dust suppressant? [3745-279-12(B)] Yes ☐ No ☒ N/A \_\_\_ RMK# \_\_\_
3. Is off-specification used oil fuel burned for energy recovery only in devices specified in 3745-279-12(C)? Yes \_\_\_ No ☒ N/A ☒ RMK# \_\_\_

## USED OIL GENERATOR STANDARDS

4. Does the generator mix hazardous waste with used oil only as provided in 3745-279-10(B)? [3745-279-21(A)] Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_
5. Does the generator of a used oil containing greater than 1,000 ppm total halogens manage the used oil as a hazardous waste unless the presumption is rebutted successfully? [3745-279-21(B)] Yes \_\_\_ No ☐ N/A ☒ RMK# \_\_\_
6. Does the generator only store used oil in tanks, containers, or units subject to OAC 3745-54 to 3745-57 or 3745-65 to 3745-69? [3745-279-22(A)] Yes ☒ No ☐ N/A \_\_\_ RMK# \_\_\_
7. Are containers and aboveground tanks used to store used oil in good condition with no visible leaks? [3745-279-22(B)] Yes ☒ No ☐ N/A \_\_\_ RMK# \_\_\_
8. Are containers, above ground tanks, and fill pipes used for underground tanks clearly labeled or marked "Used Oil?" [3745-279-22(C)] Yes ☒ No ☐ N/A \_\_\_ RMK# \_\_\_
9. Has the generator, upon detection of a release of used oil, done the following: [3745-279-22(D)]
- a. Stopped the release? Yes ☒ No ☐ N/A \_\_\_ RMK# \_\_\_
- b. Contained the release? Yes ☒ No ☐ N/A \_\_\_ RMK# \_\_\_
- c. Cleaned up and properly managed the used oil and other materials? Yes ☒ No ☐ N/A \_\_\_ RMK# \_\_\_
- d. Repaired or replaced the containers or tanks prior to returning them to service, if necessary? Yes ☒ No ☐ N/A \_\_\_ RMK# \_\_\_
10. Does the generator burn used oil in used fired space heaters? [3745-279-23] If so: Yes \_\_\_ No ☒ N/A \_\_\_ RMK# \_\_\_

a. Does the heater burn only used oil that owner/operator generates or used oil received from household do-it-yourself (DIY) used oil generators?

Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

b. Is the heater designed to have a maximum capacity of not more than 0.5 million BTU per hour?

Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

c. Are the combustion gases from heater vented to the ambient air?

Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

11. Does the generator have the used oil hauled only by transporters that have obtained an EPA ID#, unless the generator qualifies for an exemption pursuant to 3745-279-24 (self transportation or tolling agreements)? [3745-279-24]

Yes ☒ No ☐ N/A \_\_\_ RMK#\_\_\_

#### USED OIL COLLECTION CENTERS AND AGGREGATION POINTS

12. Is the DIY used oil collection center in compliance with the generator standards in 3745-279-20 to 3745-279-24? [3745-279-30]

Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

13. Is the non-DIY used oil collection center registered with Ohio EPA? [3745-279-31]

Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

14. Is the used oil aggregation point in compliance with the generator standards in 3745-279-20 to 3745-279-24? [3745-279-32]

Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

#### WASTE EVALUATION

15. Have all wastes generated at the facility been evaluated? [3745-52-11]

Yes ☒ No ☐ N/A \_\_\_ RMK#\_\_\_

#### REMARKS



## USED OIL TRANSPORTER AND TRANSFER FACILITIES

16. Does the used oil transporter process used oil? [3745-279-41(A)] If so: Yes \_\_\_ No \_\_\_ N/A X RMK# \_\_\_
- Is the used oil transporter in compliance with the requirements for processors/re-refiners in 3745-279-50 to 3745-279-59 (except as provided in 3745-279-41(B) and (C))? [3745-279-41(A)] Yes \_\_\_ No ☐ N/A X RMK# \_\_\_
17. Has the used oil transporter notified Ohio EPA or U.S. EPA and obtained an EPA ID#? [3745-279-42(A)] Yes \_\_\_ No ☐ N/A X RMK# \_\_\_
18. Has the used oil transporter delivered all used oil to:
- a. Another used oil transporter that has an EPA ID#? [3745-279-43(A)(1)] Yes \_\_\_ No ☐ N/A X RMK# \_\_\_
  - b. A used oil processing/re-refining facility that has an EPA ID#? [3745-279-43(A)(2)] Yes \_\_\_ No ☐ N/A X RMK# \_\_\_
  - c. An off-spec used oil burning facility that has an EPA ID#? [3745-279-43(A)(3)] Yes \_\_\_ No ☐ N/A X RMK# \_\_\_
  - d. An on-spec used oil burning facility? [3745-279-43(A)(4)] Yes \_\_\_ No ☐ N/A X RMK# \_\_\_
19. Has the used oil transporter complied with all applicable USDOT regulations (49 CFR 171 to 180)? [3745-279-43(B)] Yes \_\_\_ No ☐ N/A X RMK# \_\_\_
20. Has the used oil transporter had a discharge of used oil? If so: Yes \_\_\_ No \_\_\_ N/A X RMK# \_\_\_
- Did they take the appropriate action as outlined in 3745-279-43(C)? Yes \_\_\_ No ☐ N/A X RMK# \_\_\_
21. Has the used oil transporter determined whether the total halogen content of the used oil being transported or stored at a transfer facility is above or below 1000 ppm? [3745-279-44(A)] Yes \_\_\_ No ☐ N/A X RMK# \_\_\_
22. Does the transporter retain all records of analyses and information used to comply with 3745-279-44 for at least three years? [3745-279-44(A)] Yes \_\_\_ No ☐ N/A X RMK# \_\_\_
23. Does the owner/operator of a used oil transfer facility:
- a. Stored used oil in tanks, containers, or units subject to regulation under 3745-54 to 3745-57 or 3745-65 to 3745-69? [3745-279-45(B)] Yes \_\_\_ No ☐ N/A X RMK# \_\_\_

- b. Stored used oil in containers and aboveground tanks that are in good condition, with no visible leaks? [3745-279-45(C)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- c. Provide secondary containment for containers used to store used oil as required by 3745-279-45(D)? [3745-279-45(D)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- d. Provide secondary containment for existing aboveground tanks required by 3745-279-45(E)? [3745-279-45(E)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- e. Provide secondary containment for new aboveground tanks as required by 3745-279-45(F)? [3745-279-45(F)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- f. Label all containers, aboveground tanks and fill pipes used for underground tanks with the words "Used Oil?" [3745-279-45(G)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- g. Upon detection of a release of used oil: [3745-279-45(H)]
- i. Stopped the release? Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- ii. Contained the release? Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- iii. Cleaned up and managed the used oil and other materials? Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- iv. Repaired or replaced the containers or tanks prior to returning them to service, if necessary? Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
24. Does the used oil transporter keep a record of each shipment of used oil? [3745-279-46(A)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- a. Does each record include the name and address of the generator, transporter or processor/re-refiner who provides the used oil for transport? [3745-279-46(A)(1)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- b. Does each record include the EPA ID# of the generator, transporter or processor/re-refiner (if applicable) that provides the used oil for transport? [3745-279-46(A)(2)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_
- c. Does each record include the quantity of used oil accepted? [3745-279-46(A)(3)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

d. Does each record include the date of acceptance?  
[3745-279-46(A)(4)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

e. Does each record include the signature of a representative of the generator, transporter, processor/re-refiner that provided the used oil for transport? [3745-279-46(A)(5)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

25. Does the used oil transporter keep a record of each shipment of used oil that is delivered to another used oil transporter, burner, processor/re-refiner, or disposal facility? [3745-279-46(B)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

a. Does each record include the name and address of the receiving facility or transporter? [3745-279-46(B)(1)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

b. Does each record include the EPA ID# of the receiving facility or transporter? [3745-279-46(B)(2)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

c. Does each record include the quantity of used oil delivered? [3745-279-46(B)(3)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

d. Does each record include the date delivered? [3745-279-46] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

e. Does each record include the signature of a representative of the receiving facility or transporter (intermediate rail transporters are not required to sign a record of delivery)? [3745-279-46(B)(5)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

26. Does the used oil transporter who exports used oil to a foreign country comply with 3745-279-46(B)(1) to (B)(4)? [3745-279-46(C)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

27. Does the used oil transporter retain all records required under 3745-279-46 for at least three years? [3745-279-46(D)] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

28. Does the used oil transporter generate residues from the storage or transportation of used oil? Yes \_\_\_ No \_\_\_ N/A ☒ RMK#\_\_\_

If so, are they managed as specified in 3745-279-10(E)? [3745-279-47] Yes \_\_\_ No ☐ N/A ☒ RMK#\_\_\_

#### REMARKS

## USED OIL STANDARDS FOR PROCESSORS AND RE-REFINERS

29. Has the used oil processor and/or re-refiner notified Ohio EPA or U.S. EPA and obtained an EPA ID#? [3745-279-51(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
30. Does the owner/operator of a used oil processing or re-refining facility comply with the following:
- a. Is the facility maintained and operated to minimize the possibility of fire, explosion, or release of used oil? [3745-279-52(A)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - b. Is the facility equipped with the equipment in 3745-279-52(A)(2), if necessary? [3745-279-52(A)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - c. Are all communication systems, alarm systems, fire protection equipment, spill control equipment, and decontamination equipment tested and maintained as required? [3745-279-52(A)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - d. Is there access to communication or alarm system(s)? [3745-279-52(A)(4)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - e. Is the required aisle space being maintained? [3745-279-52(A)(5)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - f. Are arrangements maintained with local authorities? [3745-279-52(A)(6)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
31. Has the owner/operator of a used oil processing and re-refining facility complied with the following requirements:
- a. Has a contingency plan been developed? [3745-279-52(B)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - b. Does the contingency plan contain the requirements of 3745-279-52(B)(2)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - c. Have copies and revisions been maintained and submitted to all local authorities? [3745-279-52(B)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - d. Is the contingency plan reviewed and amended whenever one of the events in 3745-279-52(B)(4) occurs? [3745-279-52(B)(4)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - e. Is an emergency coordinator on the premises or on call at all times to meet the requirements of 3745-279-52(B)(5) and (6)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

32. Does the used oil processor/re-refiner determine whether the total halogen content of the used oil being managed at the facility is above or below 1000 ppm? [3745-279-53(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
33. Does/has the used oil processor/re-refiner:
- a. Only store used oil in tanks, containers or units subject to regulation under 3745-54 to 3745-57 or 3745-65 to 3745-69? [3745-279-54(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - b. Only store used oil in containers and aboveground tanks that are in good condition, with no visible leaks? [3745-279-54(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - c. Provide secondary containment for containers as required by 3745-279-54(C)? [3745-279-54(C)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - d. Provide secondary containment for existing aboveground tanks as required by 3745-279-54(D)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - e. Provide secondary containment for new aboveground tanks as required by 3745-279-54(E)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - f. Label all containers, aboveground tanks and fill pipes used for underground tanks with the words "Used Oil" [3745-279-54(F)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - g. Upon detection of a release of used oil, done the following in accordance with 3745-279-54(G):
    - i. Stopped the release? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
    - ii. Contained the release? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
    - iii. Cleaned up and managed the used oil and other materials? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
    - iv. Repaired or replaced the containers or tanks prior to returning them to service, if necessary? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - h. Performed closure of aboveground tanks and containers in accordance with 3745-279-54(H)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
34. Has the owner/operator of the used oil processing/re-refining facility developed, kept on-site, and followed a written waste analysis plan which meets the requirements in 3745-279-53? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

35. Does the used oil processor/re-refiner keep a record of each shipment of used oil accepted for processing/re-refining? [3745-279-56(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- a. Does each record include the name and address of the transporter who delivered the used oil to the processor? [3745-279-56(A)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- b. Does each record include the name and address of the generator or processor/re-refiner from whom the used oil was sent for processing/re-refining? [3745-279-56(A)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- c. Does each record include the EPA ID # of the transporter who delivered the used oil to the processor/re-refiner? [3745-279-56(A)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- d. Does each record include the EPA ID # (if applicable) of the generator or processor/re-refiner from whom the used oil was sent for processing/re-refining? [3745-279-56(A)(4)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- e. Does each record include the quantity of used oil accepted? [3745-279-56(A)(5)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- f. Does each record include the date of acceptance? [3745-279-56(A)(6)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
36. Does the used oil processor/re-refiner keep a record of each shipment of used oil that is shipped to a used oil burner, processor/re-refiner, or disposal facility? [3745-279-56(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- a. Does each record include the name and address of the transporter who delivers the used oil to the burner, processor/re-refiner or disposal facility [3745-279-56(B)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- b. Does each record include the name and address of the burner, processor/re-refiner or disposal facility who receives the used oil? [3745-279-56(B)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- c. Does each record include the EPA ID# of the transporter that delivers the used oil to the burner, processor/re-refiner or disposal facility? [3745-279-56(B)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- d. Does each record include the EPA ID# of the burner, processor/re-refiner or disposal facility who receives the used oil? [3745-279-56(B)(4)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

- e. Does each record include the quantity of used oil shipped? [3745-279-56-(B)(5)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- f. Does each record include the date of shipment? [3745-279-56(B)(6)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
37. Does the used oil processor/re-refiner retain all records required under 3745-279-56 for at least three years? [3745-279-56(C)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
38. Does the owner/operator keep an operating record at the facility? [3745-279-57(A)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- a. Does the operating record include records and results of used oil analysis performed as described in the analysis plan required under 3745-279-55? [3745-279-57(A)(2)(a)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- b. Are summary reports and details of all incidents that require implementation of the contingency plan as specified in 3745-279-52(B) maintained in the operating record? [3745-279-57(A)(2)(b)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
39. Does the used oil processor/re-refiner report to the director in the form of a letter, on a biennial basis by March 1, the following information:
- a. The EPA ID#, name and address of the processor/re-refiner? [3745-279-57(B)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- b. The calendar year covered by the report? [3745-279-57(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
- c. The quantities of used oil accepted for processing/re-refining and the manner in which the used oil is processed/re-refined, including the specific processes employed? [3745-279-57(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
40. Does the used oil processor/re-refiner, who initiates a shipment of used oil off-site, use a used oil transporter that has a EPA ID#? [3745-279-58] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_
41. Does the used oil processor/re-refiner generate residues from the storage, processing or re-refining of used oil? [3745-279-59] Yes \_\_\_ No \_\_\_ N/A \_\_\_ RMK#\_\_\_
- If so, are the residues managed as specified in 3745-279-10(E)? [3745-279-59] Yes \_\_\_ No ☐ N/A \_\_\_ RMK#\_\_\_

REMARKS

## STANDARDS FOR USED OIL BURNERS WHO BURN OFF-SPEC USED OIL FOR ENERGY RECOVERY

42. Is off-spec used oil fuel burned for energy recovery only in industrial furnaces identified in 3745-50-10, or boilers as defined in 3745-50-10 and identified in 3745-279-61(A)(2), or hazardous waste incinerators? [3745-279-61(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
43. Does the used oil burner process used oil? [3745-279-61(B)] Yes \_\_\_ No \_\_\_ N/A \_\_\_ RMK# \_\_\_
- If so, have they complied with the requirements for processors in 3745-279-50 to 3745-279-59? [3745-279-61(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
44. Has the used oil burner notified Ohio EPA or U.S. EPA and obtained an EPA ID#? [3745-279-62(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
45. Does the used oil burner determine whether the total halogen content of the used oil being managed at the facility is above or below 1000 ppm? [3745-279-63(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
46. Does the used oil burner retain records of all analyses conducted or information used to comply with 3745-279-63 for at least three years? [3745-279-63(D)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
47. Does the used oil burner:
- a. Only store used oil in tanks, containers or units subject to regulation under 3745-54 to 3745-65 to 3745-69? [3745-279-64(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - b. Only stored used oil in containers and aboveground tanks that are in good condition, with no visible leaks? [3745-279-64(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - c. Provided secondary containment for containers as required by 3745-279-64(C)? [3745-279-64(C)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - d. Provided secondary containment for existing aboveground tanks as required by 3745-279-64(D)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - e. Provided secondary containment for new aboveground tanks as required by 3745-279-64(E)? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
  - f. Labeled all containers, aboveground tanks and fill pipes used for underground tanks with the words "Used Oil?" [3745-279-64(F)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_



g. Upon detection of a release of used oil, done the following in accordance with 3745-279-64(G):

- i. Stopped the release? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- ii. Contained the release? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- iii. Cleaned up and managed the used oil and other materials? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- iv. Repaired or replaced the containers or tanks prior to returning them to service, if necessary? Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

48. Does the used oil burner keep a record of each used oil shipment accepted for burning? [3745-279-65(A)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

- a. Does each record include the name and address of the transporter who delivers the used oil to the burner? [3745-279-65(A)(1)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- b. Does each record include the name and address of the generator or processor/re-refiner who sent the used oil to the burner? [3745-279-65(A)(2)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- c. Does each record include the EPA ID# of the transporter that delivers the used oil to the burner? [3745-279-65(A)(3)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- d. Does each record include the EPA ID# (if applicable) of the generator or processor/re-refiner who sent the used oil to the burner? [3745-279-65(A)(4)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- e. Does each record include the quantity of the used oil accepted? [3745-279-65(A)(5)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_
- f. Does each record include the date of acceptance? [3745-279-65(A)(6)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

49. Are the records described in 3745-279-65(A) maintained for at least three years? [3745-279-65(B)] Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

50. Prior to accepting the first shipment of off-spec used oil fuel from a generator, transporter, or processor/re-refiner, does the used oil fuel burner provide to the generator, transporter, or processor/re-refiner a one-time written and signed notice certifying that:

a. The burner has notified Ohio EPA stating the location and general description of the used oil management activities? [3745-279-66(A)(1)]

Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

b. The burner will burn the used oil only in an industrial furnace or boiler identified in 3745-279-61?

Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

51. Is the certification maintained for at least three years from the date the burner last received a shipment of off-spec used oil from the generator, transporter, or processor/refiner? [3745-279-66(B)]

Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

52. Does the used oil burner generate residues from the storage or burning of used oil? [3745-279-67]

Yes \_\_\_ No \_\_\_ N/A \_\_\_ RMK# \_\_\_

If so, are the residues managed as specified in 3745-279-10(E)? [3745-279-67]

Yes \_\_\_ No ☐ N/A \_\_\_ RMK# \_\_\_

REMARKS

## STANDARDS FOR USED OIL MARKETERS

53. Does the used oil fuel marketer initiate shipments of off-spec used oil only to a used oil burner that has an EPA ID# and burns the used oil in an industrial furnace or boiler identified in 3745-279-61(A)? [3745-279-71] Yes ☒ No ☐ N/A ☐ RMK# ☐
54. Does the generator, transporter, processor/re-refiner, or burner who first claims that the used oil meets the specification for used oil fuel under 3745-279-11 keep copies of analyses of the used oil (or other information used to make the determination) for at least three years? [3745-279-72(B)] Yes ☒ No ☐ N/A ☐ RMK# ☐
55. Has the used oil marketer notified Ohio EPA or U.S. EPA and obtained an EPA ID#? [3745-279-73(A)] Yes ☒ No ☐ N/A ☐ RMK# ☐
56. Does the used oil marketer keep a record of each shipment of used oil directed to a used oil burner? [3745-279-74(A)] Yes ☒ No ☐ N/A ☐ RMK# ☐
- a. Does each record include the name and address of the transporter who delivers the used oil to the burner? [3745-279-74(A)(1)] Yes ☒ No ☐ N/A ☐ RMK# ☐
- b. Does each record include the name and address of the burner who receives the oil? [3745-279-74(A)(2)] Yes ☒ No ☐ N/A ☐ RMK# ☐
- c. Does each record include the EPA ID# of the transporter that delivers the used oil to the burner? [3745-279-74(A)(3)] Yes ☒ No ☐ N/A ☐ RMK# ☐
- d. Does each record include the EPA ID# of the burner? [3745-279-74(A)(4)] Yes ☒ No ☐ N/A ☐ RMK# ☐
- e. Does each record include the quantity of the used oil shipped? [3745-279-74(A)(5)] Yes ☒ No ☐ N/A ☐ RMK# ☐
- f. Does each record include the date of shipment? [3745-279-74(A)(6)] Yes ☒ No ☐ N/A ☐ RMK# ☐
57. Does the generator, transporter, processor/re-refiner, or burner who first claims that the used oil meets the fuel specifications under 3745-279-11 keep a record of each shipment of used oil to an on-spec used oil burner? [3745-279-74(A)(6)] Yes ☒ No ☐ N/A ☐ RMK# ☐
- a. Does each record include the name and address of the facility receiving the shipment? [3745-279-74(B)(1)] Yes ☒ No ☐ N/A ☐ RMK# ☐

- b. Does each record include quantity of used oil fuel delivered? [3745-279-74(B)(2)] Yes ☒ No ☐ N/A \_\_\_RMK#\_\_\_
- c. Does each record include date of shipment or delivery? [3745-279-74(B)(3)] Yes ☒ No ☐ N/A \_\_\_RMK#\_\_\_
- d. Does each record include a cross-reference to the record of used oil analysis or other information used to make the determination that the used oil meets the specification as required in 3745-279-72(A)? [3745-279-74(B)(4)] Yes ☒ No ☐ N/A \_\_\_RMK#\_\_\_
58. Are the records described in 3745-279-74(A) and (B) maintained for at least three years? [3745-279-74(C)] Yes ☒ No ☐ N/A \_\_\_RMK#\_\_\_
59. Before the used oil generator, transporter or processor/re-refiner directs the first shipment of off-spec used oil to a burner, does he obtain a one time written and signed notice from the burner certifying that:
- a. The burner has notified Ohio EPA stating the location and general description of the used oil management activities? [3745-279-75(A)(1)] Yes ☒ No ☐ N/A \_\_\_RMK#\_\_\_
- b. The burner will burn the off-spec used oil only in an industrial furnace or boiler identified in 3745-279-61(A)? [3745-279-75(A)(2)] Yes ☒ No ☐ N/A \_\_\_RMK#\_\_\_
60. Is the certification maintained for at least three years from the date the last shipment of off-spec used oil was shipped to the burner? [3745-279-75(B)] Yes ☒ No ☐ N/A \_\_\_RMK#\_\_\_

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# **REMARKS**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

OCT 17 2005

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

REPLY TO THE ATTENTION OF DE-9J

Mr. Patrick D. Musser  
General Manager  
United States Enrichment Corporation  
Portsmouth Gaseous Diffusion Plant  
P.O. Box 628  
Piketon, Ohio 45661

Re: RCRA Compliance Inspection  
United States Enrichment Corporation  
Piketon, Ohio  
OHD 987 054 723

Dear Mr. Musser:

On August 29, 2005, the United States Environmental Protection Agency (U.S. EPA) issued the United States Enrichment Corporation (USEC) a Notice of Violation (NOV) which identified violations of the Ohio Administrative Code and the United States Code of Federal Regulations at the Piketon, Ohio facility.

U.S. EPA received your September 30, 2005, response to the August 29, 2005 NOV.

This letter is to inform you that U.S. EPA has reviewed your response and determined that additional enforcement action need not be taken at this time.

This position does not limit your liability for compliance with all the applicable provisions of the Resource Conservation and Recovery Act, as amended. Your hazardous waste management operations will continue to be evaluated by U.S. EPA and the Ohio Environmental Protection Agency (OEPA) in the future.

If you have any questions regarding this letter, please contact Walt Francis of my staff at (312)353-4921.

Sincerely yours,

Paul Little, Chief  
Compliance Section #2  
Enforcement and Compliance Assurance Branch  
Waste, Pesticides and Toxics Division

cc: Melody Stewart, OEPA - Southeast District Office